

							Pro-96 to His-102, Gln-104 to Thr-114.					
HNGFE75	486855	7880	290 - 502	17632			Glu-39 to Gly-46, Ser-56 to Arg-64.			S0052: 1		
	490615	9663	493 - 89	19415			Leu-10 to Gln-17.					
HNGFE58	871493	7881	108 - 470	17633			Pro-17 to Trp-22, Ile-26 to Gly-31, Ala-35 to Gly-46, Asp-49 to Glu-88, Met-105 to Pro-113.			S0052: 1 and L0596: 1.		
HNGFA23	927579	7882	101 - 250	17634			Trp-17 to Met-23, Gly-25 to Asn-40, Phe-43 to Arg-48.			L0775: 1 and S0052: 1.		
HNGFA18	666626	7883	102 - 395	17635			Ser-6 to Ser-13, Leu-20 to Pro-27.			S0052: 1, L0779: 1 and L0731: 1.		
HNGEY55	888324	7884	1 - 375	17636			Gly-1 to Trp-9, Gly-45 to Asp-57, Gly-64 to Trp-81.			AR050: 23, AR051: 19, AR054: 13 S0052: 1		
HNGEY38	868073	7885	248 - 460	17637			Glu-1 to Asp-9.			L2245: 1 and S0052: 1.		
HNGEX10	860615	7886	129 - 452	17638			Ala-1 to Ser-6, Pro-24 to His-36, Val-80 to Asn-88, Gly-94 to Gln-100.			L0773: 1 and S0052: 1.		
HNGEW38	964163	9664	569 - 159	19416			Pro-19 to Gln-25.					
	573234	7887	298 - 690	17639			Trp-7 to Pro-12, Leu-38 to Lys-44, Thr-69 to Arg-76, Leu-93 to Ser-99, His-115 to Ser-124.			S0052: 1 and L0742: 1.	22q12.1	123620, 188826, 600850, 601669
HNGEU20	669811	7888	320 - 535	17640			Glu-6 to Lys-22, Ser-42 to Ser-55, Ser-58 to Ala-65.			L0754: 2 and S0052: 1.		
HNGET91	789373	7889	3 - 377	17641			His-1 to Ile-16.			L0754: 2 and S0052: 1.		
HNGER86	578910	7890	3 - 263	17642			Gln-1 to Ala-7, Trp-15 to Thr-21.			S0052: 1		
HNGER73	578909	7891	10 - 324	17643			Gly-11 to Pro-17,			S0052: 1		

							Trp-31 to Trp-38, Ser-45 to Met-51.			
HNGER62	578922	7892	107 - 307	17644			Gln-6 to Arg-18.	S0052: 1		
HNGER61	578907	7893	116 - 325	17645			Ser-16 to Thr-24, Ala-37 to Ser-49.	S0052: 1		
HNGER50	576479	7894	60 - 230	17646			Lys-8 to Cys-14.	S0052: 1		
HNGER38	578908	7895	1 - 138	17647			Gly-1 to Cys-7, Asp-23 to Gly-31, Cys-34 to Asn-40.	S0052: 1		
HNGER26	860623	7896	127 - 384	17648				S0052: 1		
HNGEO79	951489	7897	200 - 640	17649			Gln-41 to Asp-48, Ser-67 to Leu-72, Thr-79 to Ser-84, Ile-96 to Ser-103, Arg-120 to Ser-127.	AR061: 46, AR089: 19, AR051: 12, AR054: 10, AR050: 9 S0052: 1 and L0758: 1.		
HNGEN04	586457	7898	30 - 302	17650			Arg-1 to Gly-13, His-19 to Gly-24.	AR050: 63, AR051: 54, AR054: 40 S0052: 1		
HNGEK57	734923	7899	92 - 307	17651				S0052: 1 and L0592: 1.		
HNGEK16	578914	7900	2 - 172	17652			Ala-1 to Asp-9.	S0052: 1		
HNGEI44	800199	7901	13 - 345	17653			Pro-10 to Phe-15, Ala-59 to Pro-66, Pro-69 to Gln-85.	S0052: 1		
HNGEI11	967314	7902	121 - 276	17654				S0052: 1 and L0589: 1.		
HNGEG07	953658	7903	274 - 411	17655			Lys-26 to His-46.	S0052: 1 and L0589: 1.		
HNGEF81	570236	7904	2 - 220	17656			Glu-3 to Asp-13, Pro-18 to His-39.	S0052: 1		
	590251	9665	483 - 731	19417			Gly-10 to Asn-20, Glu-61 to Gly-79.			
	860649	9666	246 - 560	19418			Asp-10 to Gly-16.			
HNGEE10	968043	7905	72 - 251	17657				S0052: 1 and L0589: 1.		
HNGED92	654085	7906	257 - 3	17658			Ser-1 to Ile-7, Pro-32 to His-38, Pro-60 to Ala-69, Arg-71 to Gly-79.	S0052: 1		
	846048	9667	56 - 265	19419						

HNGED46	838885	7907	259 - 441	17659	Gln-29 to Leu-34, Gly-43 to Lys-50.	S0052: 1		
HNGEB84	783132	7908	83 - 235	17660	Arg-31 to Ala-37.	S0052: 1 and L0748: 1.		
HNGEA17	561293	7909	1 - 261	17661	Leu-8 to Arg-15, Gly-72 to Leu-81.	S0052: 1		
HNGDZ93	888677	7910	1 - 132	17662	Ile-20 to Asn-25, Pro-33 to Ser-43.	AR051: 21, AR054: 7, AR050: 1 S0052: 1		
HNGDW53	973311	7911	153 - 380	17663		S0052: 1		
HNGDW19	502499	7912	233 - 448	17664		S0052: 1		
	511193	9668	602 - 261	19420	His-10 to Lys-19, Arg-21 to Cys-29, Pro-31 to Ser-41, Gln-47 to Trp-54, Ala-57 to Gly-69, Gln-84 to Phe-102.	S0052: 1		
HNGDV38	572912	7913	50 - 136	17665		S0052: 1		
HNGDV26	572906	7914	70 - 249	17666	Pro-24 to Arg-38.	S0052: 1		
HNGDV15	572902	7915	3 - 275	17667	Ser-1 to Asn-16, Asn-27 to Gln-41.	S0052: 1		
HNGDV02	920504	7916	3 - 167	17668	Ser-24 to Ser-35.	S0052: 1		
HNGDV01	916989	7917	73 - 204	17669	Gln-16 to His-27, Ala-32 to Cys-37.	S0052: 1		
HNGDS21	396889	7918	538 - 404	17670	Ile-40 to Arg-45.	S0052: 1		
	670757	9669	151 - 291	19421	Pro-32 to Trp-37.			
HNGDR65	572896	7919	116 - 223	17671	Asp-1 to Ser-7.	S0052: 1		
HNGDQ68	753164	7920	4 - 318	17672	Gly-1 to Gly-8, Thr-16 to Gly-25, Gly-65 to Glu-80.	S0052: 1 and L0592: 1.		
HNGDQ56	733550	7921	7 - 270	17673	Phe-64 to Arg-71, Gln-77 to His-83.	S0052: 1 and L0361: 1.		
HNGDO68	753580	7922	3 - 107	17674		S0052: 1 and L0748: 1.		
HNGDO54	521883	7923	225 - 368	17675	Lys-9 to Leu-14.	S0052: 1		
HNGDO53	574450	7924	68 - 217	17676		S0052: 1		
HNGDO52	868772	7925	1 - 192	17677	Gly-9 to Gly-15, Pro-33 to Pro-40.	S0052: 1		

HNGDO40	574449	7926	166 - 2	17678	Pro-1 to Lys-11.	S0052: 1	
HNGDO30	574446	7927	45 - 131	17679	Glu-24 to Ser-29.	S0052: 1	
HNGDO29	526804	7928	186 - 347	17680	Gln-11 to Gln-17.	S0052: 1	
HNGDO18	526514	7929	122 - 238	17681	Arg-15 to Glu-24.	S0052: 1	
HNGDO06	936059	7930	136 - 261	17682	Ser-15 to Phe-22, Ala-35 to Arg-41.	S0052: 1	
HNGDO05	932400	7931	51 - 125	17683		S0052: 1	
HNGDO04	523469	7932	219 - 320	17684	Leu-13 to Arg-19.	S0052: 1	
HNGDM11	967512	7933	391 - 534	17685		L0766: 1, S0052: 1 and L0754: 1.	
HNGDL51	860671	7934	1 - 258	17686	Asn-6 to Ser-15, Pro-29 to Ser-34, Ser-49 to Arg-54.	AR054: 26, AR050: 23, AR051: 22 S0052: 1	
HNGDF94	796744	7935	24 - 128	17687		S0052: 1	
HNGDF70	506694	7936	87 - 206	17688		S0052: 1	
HNGDF58	506693	7937	19 - 315	17689	Glu-36 to Ala-46, Phe-50 to Cys-56.	L0748: 2 and S0052: 1.	
HNGDF38	574349	7938	112 - 240	17690	Asp-1 to Asn-8.	S0052: 1	
HNGDF10	968240	7939	135 - 350	17691		S0052: 1	
HNGDE79	781680	7940	269 - 403	17692	Glu-35 to Leu-41.	S0052: 1 and L0748: 1.	
HNGDE74	765812	7941	1 - 120	17693		L0748: 2 and S0052: 1.	
HNGDD27	860680	7942	91 - 252	17694	Met-26 to Ser-32.	S0052: 1	
HNGDD03	924933	7943	59 - 202	17695	Arg-6 to Asn-12.	S0052: 1	
HNGDD02	920675	7944	70 - 186	17696		S0052: 1	
HNGDB78	772804	7945	1 - 195	17697		S0052: 1	
HNGDB61	742043	7946	177 - 452	17698		S0052: 1 and L0589: 1.	
HNGDB59	688019	7947	33 - 143	17699	Asn-1 to Lys-12.	S0052: 1	
HNGDB54	574359	7948	12 - 191	17700		S0052: 1	
HNGDB40	574346	7949	3 - 110	17701	Lys-6 to Arg-12.	S0052: 1	
HNGDB16	574352	7950	2 - 100	17702	Lys-20 to Gly-25, Arg-27 to Thr-33.	S0052: 1	
HNGDB04	576460	7951	2 - 115	17703	Thr-4 to Ala-11.	S0052: 1	
HNGDA08	959964	7952	180 - 455	17704	Ser-1 to Gly-6, Arg-11 to Trp-20.	L0770: 1 and S0052: 1.	
HNGCZ54	730895	7953	62 - 292	17705		S0052: 1 and L0746: 1.	

HNGCY60	827144	7954	1 - 447	17706	Lys-1 to Ser-8.	S0052: 1 and L0747: 1.		
HNGCY10	968247	7955	121 - 246	17707	Ala-30 to Ser-40.	L0766: 1 and S0052: 1.		
HNGCQ38	544484	7956	302 - 87	17708	Arg-33 to Phe-38.	S0052: 1		
	860692	9670	35 - 226	19422				
HNGCP14	417271	7957	1 - 258	17709		S0052: 1, L0748: 1 and L0731: 1.		
	663340	7958	271 - 2	17710	Lys-6 to Gly-12, Pro-40 to Asn-47.	S0052: 1		
HNGCO71	889333	9671	746 - 510	19423				
	889334	9672	3 - 185	19424				
	889335	9673	2 - 145	19425				
	494338	7959	200 - 3	17711	Arg-11 to Leu-17.	S0052: 1		
HNGCO15	519229	9674	1 - 132	19426	Gly-10 to Phe-19.			
	825388	9675	1 - 255	19427				
	704547	7960	219 - 410	17712		L0743: 2 and S0052: 1.		
HNGCG39	961700	7961	803 - 1195	17713	Ser-1 to Cys-10, Gly-21 to Asp-26.	S0052: 1		
HNGCE81	971688	9676	576 - 184	19428	Ser-1 to Cys-10, Gly-21 to Asp-26.			
	971689	9677	143 - 331	19429	Arg-1 to Trp-31, Pro-33 to Arg-50, Leu-52 to Arg-60.			
	971690	9678	261 - 563	19430	Thr-27 to Ala-34, Arg-36 to Arg-44, Pro-89 to Ser-100.			
	860699	7962	536 - 745	17714	Gly-8 to Glu-18.	AR051: 24, AR054: 9, AR050: 3 S0052: 1		
HNGCE40	638114	7963	192 - 419	17715	Pro-39 to Ser-47.	S0052: 1		
HNGCC02	917319	9679	186 - 413	19431				
	953894	7964	32 - 277	17716	Ala-30 to Lys-35.	S0052: 1 and L0749: 1.		
HNGBW07	494334	7965	263 - 96	17717	Glu-43 to Tyr-51.	S0052: 1		
HNGBS77	860721	9680	769 - 975	19432	Asn-1 to Lys-6.			
	574401	7966	76 - 291	17718	Thr-20 to Gly-27.	AR051: 11, AR054: 8, AR050: 1		

HNGBO01	921413	7967	1 - 144	17719			S0052: 1		
HNGBN12	920949	7968	88 - 333	17720	Ser-70 to Trp-77.		S0052: 1 and L0759: 1. L0800: 1, S0052: 1 and L0758: 1.		
HNGBL40	880778	7969	72 - 356	17721			S0052: 1 and L0361: 1.		
HNGBF25	678767	7970	331 - 507	17722	Pro-15 to Leu-22.		S0052: 1 and L0745: 1.		
HNGAZ70	757413	7971	138 - 359	17723	Pro-69 to Ser-74.		S0052: 1 and L0754: 1.		
HNGAZ56	733631	7972	186 - 416	17724	Asn-8 to Lys-14, Arg-42 to Arg-48, Ile-50 to Gly-55.		L0747: 2 and S0052: 1.		
HNGAZ08	959977	7973	242 - 436	17725			L0766: 1, S0052: 1 and L0779: 1.		
HNGAX93	792525	7974	198 - 1	17726			S0052: 1 and L0749: 1.		
HNGAW50	723632	7975	3 - 107	17727			L0748: 2, S0052: 1 and L0749: 1.		
HNGAV20	669901	7976	1 - 186	17728			L0748: 4, L0659: 1 and S0052: 1.		
HNGAR02	920736	7977	105 - 332	17729	Arg-25 to Glu-41.		L0375: 1, L0365: 1 and S0052: 1.		
HNGAQ75	766512	7978	3 - 149	17730	Arg-6 to Leu-13.		S0052: 1		
HNGAQ73	574649	7979	1 - 150	17731			S0052: 1		
HNGAQ49	574652	7980	25 - 171	17732			S0052: 1		
HNGAQ38	574658	7981	3 - 125	17733	Pro-10 to Thr-19.		S0052: 1		
HNGAQ37	575492	7982	3 - 149	17734	Val-22 to Ser-34.		S0052: 1		
HNGAQ14	574660	7983	27 - 95	17735	Pro-1 to Phe-8.		S0052: 1		
HNGAQ02	920756	7984	5 - 115	17736	Gln-10 to Gln-18, His-20 to Asn-27.		S0052: 1		
HNGAQ01	921434	7985	3 - 161	17737	Pro-16 to Gly-25.		S0052: 1		
HNGAP69	513808	7986	406 - 666	17738			S0052: 1		
	537606	9681	417 - 40	19433					
HNGAM31	426200	7987	287 - 39	17739	Thr-46 to Ser-54.		S0052: 1		
	860765	9682	117 - 374	19434					
HNGAJ78	773425	7988	281 - 637	17740	Pro-7 to Ser-14.		AR054: 44, AR050: 36, AR051: 5 S0052: 1		

	888315	9683	1 - 219	19435				
HNGAD20	890591	7989	3 - 158	17741			AR051: 23, AR054: 12, AR050: 3 S0052: 1	
HNFJ67	751605	7990	75 - 260	17742		Glu-48 to Ala-54.	H0271: 1 and L0599: 1.	
HNFJB08	959428	7991	326 - 520	17743		Asn-1 to Leu-14, Lys-25 to Arg-30.	H0271: 1, L0748: 1 and L0758: 1.	
HNFJY76	767681	7992	143 - 316	17744			H0416: 1 and L0749: 1.	
HNFJW53	467056	7993	172 - 363	17745		Ala-24 to Lys-29, Gly-37 to Arg-52.	H0416: 1 and L0745: 1.	
HNFJW14	658129	7994	2 - 265	17746			H0416: 1 and L0591: 1.	17
HNFJ17	429602	7995	314 - 550	17747		Gln-1 to Gly-11, Gln-22 to Ser-29.	H0416: 1	
	460818	9684	248 - 24	19436		Thr-1 to Thr-12.		
HNFJN07	953330	7996	257 - 526	17748		Asp-1 to Thr-10.	H0416: 1 and L0748: 1.	
HNFJ11	966347	7997	162 - 434	17749		Pro-8 to Gly-13.	H0416: 1	
HNFJA59	739358	7998	283 - 450	17750		His-8 to Ser-16, Asp-50 to Gly-55.	H0416: 1 and L0748: 1.	
HNFHY59	951005	7999	948 - 769	17751			H0271: 1	
HNFHX58	735299	8000	320 - 673	17752		Glu-49 to Glu-58, His-70 to Gly-75.	H0271: 1 and L0748: 1.	
HNFHV96	716913	8001	3 - 269	17753		Pro-9 to Thr-20, Gln-55 to Trp-65, Glu-70 to Ala-85.	L0766: 2, L0439: 2, H0271: 1 and L0756: 1.	
HNFHU61	741901	8002	123 - 293	17754			H0271: 1	
HNFHR56	733297	8003	230 - 57	17755			H0271: 1	
	868091	9685	439 - 600	19437				
HNFHA09	961165	8004	188 - 463	17756		Lys-1 to Glu-8, Gln-20 to Ala-27.	H0271: 1 and L0592: 1.	
HNFGS84	783199	8005	1 - 93	17757		Pro-26 to Arg-31.	L0745: 2, L0746: 2, H0271: 1 and L0748: 1.	
HNFJ65	574598	8006	3 - 95	17758		His-1 to Cys-12.	H0271: 1	
HNFJ42	526844	8007	2 - 118	17759			H0271: 1	
HNFJ17	574597	8008	80 - 184	17760		Asn-1 to Glu-13.	H0271: 1	
HNFJH36	574601	8009	22 - 150	17761			H0271: 1	

HNFGH32	574605	8010	127 - 240	17762		H0271: 1	
HNFGG80	574602	8011	1 - 72	17763	Thr-8 to Arg-14.	H0271: 1	
HNFGG18	574608	8012	37 - 144	17764		H0271: 1 and L0756: 1.	
HNFGG06	936086	8013	2 - 295	17765		H0271: 1	
HNFGF88	522077	8014	126 - 257	17766		H0271: 1	
HNFGF66	860896	8015	88 - 372	17767		H0271: 1 and L0758: 1.	
HNFGF52	522293	8016	61 - 360	17768		H0271: 1	
HNFGF37	574609	8017	41 - 223	17769	Leu-50 to Val-55.	H0271: 1	22q
HNFGF80	571306	8018	75 - 245	17770	Lys-1 to Asp-6.	H0271: 1	
HNFGF41	504165	8019	2 - 142	17771	Gly-30 to Lys-36.	H0271: 1	
HNFGF81	778250	8020	297 - 497	17772	Cys-37 to Asp-42.	L0599: 2 and H0271: 1.	
HNFGA92	790617	8021	222 - 419	17773		H0271: 1 and L0750: 1.	
HNFGA85	521880	8022	51 - 365	17774		H0271: 1	
HNFGA57	571305	8023	3 - 113	17775		H0271: 1	
HNFFU64	578096	8024	172 - 282	17776		H0271: 1, UNKWN: 1 and L0600: 1.	
HNFFR38	455273	8025	704 - 339	17777		H0271: 1	
	860903	9686	15 - 284	19438	Gln-30 to Lys-35, Leu-54 to His-60.		
HNFFQ29	860905	8026	114 - 404	17778	Ser-76 to Pro-86.	H0271: 1 and L0774: 1.	
HNFFO20	836239	8027	195 - 350	17779	Phe-14 to Leu-21, His-33 to Glu-40.	H0271: 1 and L0746: 1.	
HNFFL57	786899	8028	208 - 423	17780	Leu-15 to Gly-20.	H0271: 1 and L0754: 1.	
HNFFO5	932432	8029	37 - 132	17781		L0471: 1 and H0271: 1.	
HNFFC75	767453	8030	3 - 158	17782		H0271: 1	
HNFEY24	677114	8031	65 - 286	17783		H0271: 1	
HNFE06	936099	8032	198 - 332	17784		H0271: 1 and L0748: 1.	
HNFEQ28	685514	8033	157 - 396	17785		H0271: 1 and L0747: 1.	
HNFE184	783211	8034	249 - 392	17786		H0271: 1 and L0748: 1.	
HNFCV02	861004	8035	73 - 279	17787	Pro-36 to Gly-45, Ser-64 to Thr-69.	AR051: 40, AR054: 38, AR050: 29 H0271: 1	
HNFCO90	529966	8036	31 - 168	17788	Ile-14 to Ser-30.	H0271: 1	
HNFCO85	529967	8037	2 - 151	17789		H0271: 1	
HNFCO52	518637	8038	1 - 216	17790		H0271: 1	

HNFCO41	529970	8039	2 - 145	17791			H0271: 1		
HNFCO37	507312	8040	634 - 804	17792			L0748: 4, L0749: 2 and H0271: 1.		
HNFCO32	529971	8041	3 - 206	17793			H0271: 1		
HNFCO22	529973	8042	35 - 160	17794			H0271: 1		
HNFCO25	556464	8043	116 - 232	17795			AR051: 2, AR054: 1, AR050: 1 H0271: 1 and L0457: 1.		
HNFBY08	960222	8044	1 - 177	17796		Gln-16 to Lys-22.	L0748: 2 and H0271: 1.		
HNFBT45	574972	8045	154 - 375	17797		Ser-1 to Trp-6, Asn-8 to Trp-13, Ala-21 to Gly-38, Cys-46 to Trp-52.	AR051: 24, AR054: 9, AR050: 2 H0271: 1		
HNFBQ02	921029	8046	29 - 271	17798		Leu-15 to Thr-21, Lys-27 to Leu-36, Asp-39 to Thr-47.	H0271: 1 and L0745: 1.		
HNFAF78	601639	8047	567 - 313	17799			H0271: 1		
	679579	9687	202 - 2	19439		Arg-25 to Ala-31.			
	892100	9688	276 - 845	19440		Arg-1 to Gly-8, Pro-10 to Gly-15, His-41 to Gly-48, Pro-77 to Gly-91, Leu-151 to Val-158.			
HNEDU66	861030	8048	116 - 337	17800			H0179: 1 and L0776: 1.		
HNEDR54	730953	8049	229 - 405	17801		Leu-20 to Cys-26, His-52 to Ser-58.	H0179: 1 and L0777: 1.		
HNEDP86	785736	8050	170 - 394	17802			H0179: 1 and L0766: 1.		
HNEDO77	955894	8051	1 - 384	17803		Pro-8 to Ala-20, Pro-36 to Ser-43, Ser-79 to Thr-84, Gly-90 to Pro-95.	H0179: 1 and L0764: 1.	19	
HNEDJ03	967115	8052	49 - 351	17804			H0179: 1, L0762: 1, L0806: 7p15 1, L0666: 1 and L0439: 1.	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649	
HNEDH59	739533	8053	309 - 527	17805			L0439: 5 and H0179: 1.		

HNEDF15	946986	8054	56 - 235	17806		H0179: 1		
	973855	9689	443 - 610	19441	His-8 to Pro-16.			
	973858	9690	107 - 265	19442				
HNEDD15	812918	8055	115 - 450	17807	Leu-58 to Lys-63, Ser-72 to Ala-84.	L0530: 2 and H0179: 1.		
HNECS71	761415	8056	169 - 363	17808	Gly-29 to Glu-35.	H0179: 1 and L0599: 1.		
	469521	8057	215 - 424	17809	Thr-50 to Ile-59.			
HNECP28	470445	9691	141 - 1	19443	His-39 to Arg-47.	H0179: 1 and L0599: 1.		
HNECN28	558790	8058	27 - 251	17810	Ser-21 to Gly-28.	H0179: 1		
HNECI41	712607	8059	115 - 333	17811	Pro-42 to Glu-49, Arg-65 to Ser-73.	H0179: 1 and L0749: 1.		
HNECD74	470015	8060	368 - 508	17812		H0179: 1		
	484793	9692	397 - 185	19444				
HNEBY64	514762	8061	480 - 767	17813	Ser-8 to Cys-14, Lys-55 to Cys-61.	H0179: 1		
HNEBY10	968455	8062	503 - 318	17814	Leu-3 to Gln-19.	H0179: 1 and L0776: 1.		
HNEBN04	927811	8063	168 - 422	17815		H0179: 1 and L0366: 1.		
HNEBM59	950732	8064	16 - 327	17816	Thr-48 to Pro-53.	H0179: 1		
HNEBM40	868109	8065	237 - 431	17817		H0179: 1		
HNEBJ95	529572	8066	2 - 202	17818	Pro-8 to Arg-13, Arg-28 to Gly-36, Pro-49 to Gly-54.	H0179: 1		
HNEBJ81	529571	8067	15 - 134	17819	Leu-21 to Glu-28.	AR061: 3, AR089: 2 H0179: 1		
HNEBJ67	529573	8068	25 - 126	17820	Glu-21 to Cys-30.	H0179: 1		
HNEBJ62	861074	8069	28 - 252	17821	Leu-24 to Ser-40, Leu-68 to Arg-74.	H0179: 1		
HNEBJ43	529574	8070	2 - 199	17822	Lys-27 to Glu-34.	H0179: 1		
HNEBJ31	529577	8071	35 - 202	17823		H0179: 1		
HNEBJ21	529578	8072	1 - 180	17824		H0179: 1		
HNEBJ10	968440	8073	3 - 167	17825		H0179: 1 and L0766: 1.		
HNEBJ09	529579	8074	42 - 134	17826	Leu-6 to Pro-11.	H0179: 1		
HNEBJ07	861072	8075	76 - 282	17827	Ser-10 to Pro-25, Thr-43 to Arg-51, Val-59 to Trp-69.	H0179: 1		

HNEBF27	684467	8076	2 - 148	17828	Ser-22 to Ser-27.	H0179: 1	
HNEBF20	529643	8077	2 - 79	17829	Gln-14 to Gly-23.	H0179: 1, L0662: 1, L0652: 1, L0776: 1 and L0758: 1.	
HNEAQ86	575534	8078	181 - 300	17830	Arg-6 to Cys-12.	H0179: 1	
HNEAQ37	507280	8079	1 - 237	17831		H0179: 1	
HNEAN10	968468	8080	143 - 349	17832		H0179: 1 and L0746: 1.	
HNEAK47	529646	8081	65 - 202	17833		H0179: 1	
HNEAF71	761414	8082	1 - 225	17834		H0179: 1 and L0742: 1.	
HNEAA59	738531	8083	222 - 488	17835	Pro-74 to Asn-81.	L0747: 2 and H0179: 1.	
HMWJD93	849419	8084	11 - 262	17836	Val-57 to Glu-62.	H0341: 1 and L0748: 1.	
HMWIZ55	731809	8085	2 - 151	17837		H0341: 1	
HMWIX77	973813	8086	201 - 647	17838	Glu-8 to Glu-15, Pro-43 to His-48.	H0341: 1	
HMWIX37	708676	8087	147 - 275	17839	Gly-5 to Asp-12.	L0747: 2, H0341: 1, L0774: 1, L0657: 1 and L0754: 1.	
HMWIS12	970753	8088	850 - 996	17840	Arg-14 to Leu-21.	L0779: 2, H0341: 1, L0766: 1 and L0515: 1.	
HMWIQ64	842657	8089	505 - 744	17841		L0748: 2 and H0341: 1.	
HMWIQ44	716509	8090	198 - 55	17842	Arg-20 to Asp-37.	H0341: 1	
	716650	9693	86 - 307	19445	Lys-1 to Pro-7.		
HMWIO15	956253	8091	124 - 372	17843	Gln-23 to Thr-29, Cys-61 to Pro-73.	H0341: 1	
HMWIM05	861094	8092	178 - 366	17844	Leu-54 to Gly-63.	AR050: 75, AR054: 68, AR051: 62 H0341: 1	
HMWIL08	959512	8093	3 - 722	17845	Glu-28 to Pro-36, Gly-47 to Gly-56.	H0341: 1, L0741: 1, L0745: 1, L0747: 1 and L0759: 1.	
HMWIK10	964701	8094	184 - 558	17846	Leu-8 to Ser-16.	H0341: 1 and L0769: 1.	
HMWIG75	767332	8095	131 - 331	17847	Pro-10 to Gly-20, Gly-29 to His-35.	H0341: 1	
HMWIG26	861091	8096	2 - 301	17848		H0341: 1	
HMWIG17	663972	8097	4 - 159	17849	Asp-23 to Lys-29.	L0748: 2, H0341: 1 and L0747: 1.	
HMWIG13	657260	8098	19 - 354	17850	Ala-3 to Ser-8, Pro-10 to Gly-19.	H0341: 1	103000, 114350, 120900, 131195,

						Leu-37 to Ser-53, Ser-63 to Cys-70, Pro-82 to Gln-93, Pro-95 to Pro-101.				185000, 189980, 600184, 602575, 602575
HMWIG01	913689	8099	51 - 161	17851				H0341: 1		
HMWID28	419821	8100	3 - 305	17852				H0341: 1 and L0599: 1.		
HMWIA19	928488	8101	1 - 270	17853		Phe-16 to Ser-22, Pro-50 to Pro-56.		AR054: 137, AR050: 129, AR051: 100 H0341: 1		
HMWHZ43	861097	8102	3 - 227	17854		Ile-1 to Pro-15, Leu-43 to Gly-48, Thr-51 to Glu-62, Leu-67 to Asn-75.		H0341: 1		
HMWHW82	779903	8103	55 - 174	17855		Phe-5 to Asp-10.		H0341: 1 and L0748: 1.		
HMWHV36	708099	8104	102 - 254	17856		Ser-9 to Phe-17, His-26 to Arg-32.		H0341: 1 and L0748: 1.	3	
HMWHV12	970742	8105	184 - 420	17857		Ala-22 to Leu-30.		H0341: 1 and L0747: 1.		
HMWHHP86	785510	8106	88 - 174	17858				H0341: 1 and L0748: 1.		
HMWHHD94	794306	8107	1 - 108	17859				H0341: 1		
HMWHB71	565104	8108	899 - 1129	17860		His-49 to Ala-57.		H0341: 1		
HMWGW79	646280	8109	54 - 377	17861		Thr-1 to Lys-12, Thr-68 to Arg-89.		L0439: 2, H0341: 1 and L0748: 1.		
HMWQG48	861114	8110	185 - 424	17862		Thr-46 to Ile-55.		AR050: 43, AR054: 39, AR051: 38 H0341: 1		
HMWGI79	774806	8111	462 - 262	17863		Arg-18 to His-27.		H0341: 1		
	774828	9694	79 - 285	19446		Glu-7 to Ser-12, Lys-58 to Gly-64.				
HMWGH30	455037	8112	268 - 119	17864				H0341: 1 and L0475: 1.		
	692606	9695	116 - 310	19447		Asp-4 to Ser-14, Lys-41 to Asp-48.				
HMWGE06	935593	8113	133 - 345	17865				H0341: 1 and L0776: 1.		
HMWFY93	506636	8114	170 - 448	17866				H0341: 1 and L0439: 1.		
HMWFN80	573608	8115	98 - 205	17867				H0341: 1		
HMWFN37	861123	8116	58 - 441	17868		Pro-61 to Ala-71, Gly-86 to Asp-92.		H0341: 1, L0070: 1 and L0759: 1.		

HMWFN32	573603	8117	138 - 308	17869	Ala-9 to Ser-14.	H0341: 1		
HMWFI18	666681	8118	197 - 346	17870		H0341: 1 and L0748: 1.		
HMWFG88	592078	8119	46 - 357	17871	Trp-7 to Leu-14.	H0341: 1 and L0748: 1.		
HMWFD86	785629	8120	122 - 412	17872	Asn-4 to His-10, Gly-18 to Leu-34, Ala-48 to Trp-54.	H0341: 1 and L0766: 1.		
HMWFD68	861124	8121	3 - 161	17873	His-1 to Asp-6.	L0749: 2 and H0341: 1.		
HMWFC64	573596	8122	120 - 323	17874	Gly-24 to His-41.	H0341: 1		
HMWET56	812712	8123	2 - 259	17875	Ser-1 to Ser-8.	H0341: 1		
HMWEQ52	728535	8124	62 - 274	17876	Ala-28 to Gly-34.	H0341: 1 and L0766: 1.		
HMWEN61	909931	8125	2 - 322	17877	Glu-6 to Gly-11, Asp-61 to Asn-68, Glu-93 to Asn-102.	AR051: 21, AR054: 15, AR050: 1 H0341: 1		
HMWEL56	733583	8126	3 - 263	17878	Glu-20 to Ala-35.	H0341: 1 and L0756: 1.		
HMWEI53	861141	8127	3 - 137	17879	Lys-1 to Leu-16.	H0341: 1 and L0740: 1.		
HMWEA91	790331	8128	66 - 539	17880	Ser-2 to Cys-15.	L0743: 2, L0777: 2, H0341: 1 and L0740: 1.		
HMWEA10	968105	8129	2 - 235	17881	His-8 to Asp-22.	L0777: 2 and H0341: 1.		
HMWDZ25	678724	8130	2 - 163	17882		H0341: 1 and L0748: 1.		
HMWDR15	660522	8131	1 - 417	17883	Asp-1 to Ile-32, Pro-34 to Pro-39, Leu-43 to Arg-48, Glu-71 to Thr-82, Pro-95 to Pro-102, Glu-114 to Lys-124.	H0341: 1 and L0754: 1.		
HMWDP06	935903	8132	18 - 110	17884		H0341: 1		
HMWDN60	974425	8133	61 - 375	17885	Pro-6 to Gly-11, Gly-54 to Arg-62.	L0756: 2 and H0341: 1.		
HMWDH55	732304	8134	98 - 310	17886	Pro-21 to His-38.	L0749: 2 and H0341: 1.		
HMWCT43	715575	8135	130 - 414	17887		H0341: 1 and L0748: 1.		
HMWCR88	955258	8136	92 - 190	17888	Phe-9 to Cys-17.	L0756: 2 and H0341: 1.		
HMWCH47	720581	8137	112 - 261	17889		H0341: 1 and L0439: 1.		
HMWCH04	615628	8138	2 - 130	17890	Ile-26 to Ser-33.	L0740: 2 and H0341: 1.		
HMWCG38	851630	8139	249 - 494	17891	Gly-1 to Lys-8, Ser-30 to Leu-43, Glu-68 to Gly-77.	H0341: 1 and L0748: 1.		

HMWBZ89	787111	8140	1 - 207	17892	Thr-18 to Lys-24.	H0341: 1 and L0748: 1.		
HMWBT59	893995	8141	3 - 287	17893	Pro-59 to Trp-72.	AR054: 37, AR050: 34, AR051: 33, AR089: 5, AR061: 4 H0341: 1		
HMWBT05	932558	8142	218 - 379	17894		L0740: 2, H0341: 1, L0761: 1, L0517: 1 and L0744: 1.		
HMWBI77	888862	8143	3 - 404	17895		AR054: 18, AR051: 15, AR050: 2 H0341: 1		
HMWBI40	712730	8144	393 - 617	17896		H0341: 1 and L0439: 1.		
HMWBH29	927321	8145	2 - 499	17897		L0749: 2, H0341: 1, L0775: 1 and L0439: 1.		
HMWBG16	859404	8146	2 - 202	17898	Pro-9 to Gly-18.	H0341: 1		
HMWBB42	714114	8147	310 - 423	17899	Gln-3 to Ser-8.	H0341: 1 and L0748: 1.		
HMWAJ04	586507	8148	27 - 395	17900	Val-1 to Leu-19, Pro-23 to Thr-29, Thr-34 to Thr-39, Pro-45 to Asn-54, His-61 to Trp-70.	AR051: 120, AR050: 118, AR054: 100 H0341: 1		
HMVDZ11	966351	8149	2 - 145	17901		S0212: 1, L0744: 1 and L0596: 1.		
HMVDV55	811616	8150	3 - 245	17902		L0439: 2, S0212: 1 and L0748: 1.		
HMVDQ02	919057	8151	209 - 355	17903		S0212: 1, L0774: 1 and L0589: 1.		
HMVDL45	717384	8152	341 - 655	17904	Ser-1 to Gln-17, Tyr-48 to Ser-64, Asp-69 to Lys-84.	L0438: 2, L0439: 2 and S0212: 1.		
HMVDJ60	877124	8153	398 - 661	17905	Glu-29 to Ile-36, Arg-47 to Ser-54, Arg-62 to Ser-67.	S0212: 1, L0756: 1 and L0731: 1.		
HMVDE10	861184	8154	247 - 462	17906		S0212: 1 and L0759: 1.		
HMVCY89	786651	8155	352 - 471	17907		L0748: 5 and S0212: 1.		
HMVCY14	657801	8156	1 - 474	17908		L0748: 3 and S0212: 1.		
HMVCG26	681174	8157	119 - 340	17909	Asp-21 to Leu-27.	S0212: 1, L0471: 1 and		

HMVBV77	771974	8158							L0754: 1.			
HMVBV16	661692	8159				17910	422 - 577	17910	Asn-2 to Asp-9.			
						17911	318 - 461	17911				
HMVBV89	786118	8160				17912	213 - 452	17912	Tyr-22 to Thr-27.			
HMVBV83	780366	8161				17913	494 - 736	17913	Ala-47 to His-52.			
HMVBV91	790025	8162				17914	94 - 219	17914	Phe-23 to Ala-28.			
HMVBV52	726546	8163				17915	3 - 215	17915				
HMVBV44	716410	8164				17916	264 - 386	17916				
HMVAT54	888180	8165				17917	86 - 562	17917	Thr-13 to Trp-20, Gly-52 to Leu-59, Gln-138 to Thr-143.		16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 600761, 602066
HMVAT52	726515	8166				17918	39 - 428	17918	Thr-10 to Cys-25, Ser-39 to Asp-47.			
HMVAP56	732985	8167				17919	146 - 304	17919	Ser-31 to Ser-43.			
HMVAF71	761400	8168				17920	2 - 145	17920				
HMVAF52	861210	8169				17921	1 - 378	17921	Ile-46 to Ile-51.			
HMVAC67	751600	8170				17922	527 - 811	17922				
HMSPH53	861245	8171				17923	2 - 307	17923	Ser-67 to Trp-72.			
HMSPE04	926800	8172				17924	2 - 250	17924				
HMSPA30	861265	8173				17925	365 - 189	17925				
HMSO028	861287	8174				17926	473 - 24	17926			10q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
HMSOJ88	861292	8175				17927	1 - 471	17927	Glu-9 to Glu-18, Asp-24 to Leu-29, Pro-98 to Ser-112, Ala-115 to Thr-121.			

HMSOJ01	915084	8176	500 - 775	17928	Pro-33 to Thr-39.	S0426: 1, L0662: 1, L0766: 1, L0748: 1, L0779: 1 and L0759: 1.		
HMSOH03	922828	8177	212 - 397	17929		S0426: 1, L0438: 1 and L0439: 1.		
HMSNP06	934161	8178	249 - 419	17930		S0426: 1 and L0769: 1.		
HMSNG04	926845	8179	204 - 431	17931	Leu-1 to Lys-7, Cys-13 to Ser-23, Ser-25 to Gly-48, Thr-57 to Pro-65.	L0623: 1 and S0426: 1.		
HMSMY10	963431	8180	39 - 191	17932	Ala-1 to Tyr-12, Pro-44 to Leu-51.	S0426: 1, L0748: 1 and L0749: 1.		
HMSMW91	861336	8181	1 - 117	17933		S0426: 1 and L0749: 1.		
HMSMW64	861338	8182	22 - 441	17934	Val-3 to Lys-9, Leu-32 to Gln-40, Glu-70 to Gly-83.	S0426: 1 and L0589: 1.		
HMSMO59	861341	8183	148 - 495	17935	Arg-33 to Phe-41, Ser-62 to Lys-67.	L0596: 2 and S0426: 1.		
HMSMN71	927097	8184	3 - 533	17936	Lys-1 to Glu-7, Gln-18 to Asp-33, Leu-44 to Leu-50, Thr-67 to Ala-82, Ser-90 to Ser-98, Leu-130 to Gln-135.	AR061: 7, AR089: 3 L0483: 1 and S0426: 1.		
HMSMN26	861345	8185	2 - 136	17937	Gly-22 to Trp-29.	S0426: 1 and L0748: 1.		
HMSLH07	953390	8186	1 - 96	17938		S0002: 1 and L0521: 1.		
HMSKQ08	861372	8187	184 - 447	17939		S0002: 1		
HMSKH24	495770	8188	372 - 268	17940	Pro-19 to Arg-27.	S0002: 1		
	596892	9696	178 - 390	19448				
HMSJX84	783032	8189	338 - 496	17941	Asn-1 to His-10.	S0002: 1 and L0439: 1.		
HMSJW48	852496	8190	674 - 1159	17942	Pro-52 to Ser-58, Cys-82 to Ala-87, Pro-104 to Ala-114, Pro-123 to Thr-128, Gly-144 to Gly-158.	S0002: 1		
HMSJU80	775416	8191	231 - 395	17943	Lys-18 to Asp-24.	L0748: 3 and S0002: 1.		

HMSJQ40	954003	8192	2 - 331	17944			S0002: 1	
HMSJO72	465884	8193	49 - 270	17945	Leu-52 to Tyr-58.		S0002: 1 and L0748: 1.	
HMSJO43	715274	8194	1 - 63	17946			S0002: 1	
HMSJM02	920070	8195	351 - 1091	17947	Arg-33 to Thr-38.		S0002: 1 and L0597: 1.	
HMSJL53	921263	8196	71 - 433	17948	Lys-13 to Ala-20, Gln-57 to Cys-65.		AR050: 30, AR051: 29, AR054: 23 S0002: 1	
HMSJJ22	495774	8197	581 - 408	17949			S0002: 1	
	855778	9697	353 - 613	19449	Tyr-28 to Gly-34.			
HMSIJ78	772846	8198	170 - 421	17950			S0002: 1 and L0591: 1.	
HMSJD56	868168	8199	219 - 446	17951			S0002: 1 and L0766: 1.	
HMSIZ49	973806	8200	445 - 645	17952			S0002: 1	
HMSIW04	465835	8201	585 - 749	17953			S0002: 1 and L0756: 1.	
HMSIU74	765600	8202	270 - 377	17954			S0002: 1 and L0746: 1.	
HMSIT32	699241	8203	322 - 492	17955			S0002: 1, L0517: 1 and L0756: 1.	
HMSIT28	686663	8204	29 - 217	17956	Ser-29 to Leu-34, Arg-42 to Gly-51.		S0002: 1 and L0439: 1.	
HMSIP20	669671	8205	169 - 300	17957	Gln-13 to Leu-18, Asn-29 to Arg-35.		S0002: 1 and L0599: 1.	
HMSIP02	920079	8206	402 - 223	17958			S0002: 1 and L0749: 1.	
HMSIK04	615218	8207	16 - 201	17959			S0002: 1 and L0766: 1.	
HMSIB06	935151	8208	289 - 47	17960	Trp-1 to Asp-6.		S0002: 1 and L0749: 1.	
	935272	9698	212 - 403	19450	Asn-3 to Trp-10.			
HMSHV11	967007	8209	28 - 153	17961	Tyr-1 to Asn-7.		S0002: 1 and L0605: 1.	
HMSHU68	753038	8210	513 - 271	17962			S0002: 1 and L0757: 1.	
HMSHU37	495778	8211	195 - 1	17963	Leu-40 to Gly-53, Arg-60 to Arg-65.		S0002: 1	
	855786	9699	1 - 282	19451				
	855787	9700	344 - 514	19452				
HMSHT11	967068	8212	348 - 485	17964			L0476: 1 and S0002: 1.	
HMSHO45	717808	8213	57 - 227	17965			S0002: 1 and L0745: 1.	
HMSHJ09	709471	8214	359 - 736	17966			S0002: 1 and L0731: 1.	
HMSHI61	741834	8215	111 - 341	17967	Thr-43 to Asp-49.		L0777: 2, S0002: 1, L0745: 1, L0746: 1 and L0750: 1.	

HMSGH08	959461	8216	1 - 150	17968	Pro-11 to Ala-22, Thr-44 to Arg-50.	S0002: 1 and L0742: 1.		
HMSGH06	935496	8217	194 - 349	17969	Thr-13 to Arg-24, Cys-40 to Lys-47.	S0002: 1 and L0758: 1.		
HMSHE81	784966	8218	2 - 430	17970	Ala-4 to Tyr-11, Thr-26 to Pro-38, Ser-56 to Asp-64, Ser-70 to Ser-76.	AR089: 27, AR061: 8 S0002: 1 and L0754: 1.		
HMSHE17	662265	8219	446 - 694	17971	Ser-11 to Thr-18.	AR050: 29, AR051: 29, AR054: 26 L0748: 2 and S0002: 1.		
	847271	9701	418 - 606	19453	Pro-31 to Cys-40, Pro-42 to Glu-48.	S0002: 1		
HMSHD80	882700	8220	273 - 518	17972		L0750: 2 and S0002: 1.		
HMSHB81	777946	8221	424 - 636	17973	Thr-31 to Gly-38, Leu-43 to Asn-55.	S0002: 1		
HMSGX86	793163	8222	3 - 158	17974	Ala-21 to Lys-28.	S0002: 1		
HMSGF56	733562	8223	174 - 308	17975	Asp-1 to Asn-9, Leu-31 to Val-39.	L0748: 2 and S0002: 1.		
HMSGF54	730823	8224	265 - 119	17976	Ser-41 to Arg-49.	S0002: 1 and L0362: 1.		
HMSGF51	761922	8225	124 - 333	17977	Gln-20 to Ser-25, Glu-42 to Ile-52.	S0002: 1 and L0592: 1.		
HMSGD24	677337	8226	14 - 136	17978		L0748: 2 and S0002: 1.		
HMSGC85	783608	8227	266 - 21	17979	Lys-22 to His-38, Lys-48 to Arg-59.	S0002: 1, L0779: 1 and L0731: 1.		
	881955	9702	275 - 514	19454	Lys-1 to Ala-10, Gln-53 to Thr-58.			
HMSFY63	745230	8228	184 - 315	17980		S0002: 1 and L0745: 1.		
HMSFX73	888326	8229	97 - 2	17981	Gly-8 to Glu-18.	AR054: 44, AR050: 25, AR051: 19 S0002: 1		
HMSFS08	959773	8230	290 - 421	17982	Glu-1 to Tyr-7.	S0002: 1 and L0758: 1.		
HMSFR23	919890	8231	763 - 1002	17983	Gly-58 to Ala-64.	S0002: 1		
HMSFN08	959774	8232	1 - 282	17984		S0002: 1 and L0794: 1.		
HMSFN68	753635	8233	2 - 88	17985		S0002: 1		
HMSFN13	384695	8234	22 - 222	17986	Leu-1 to His-6.	S0002: 1		

HMSSEN08	960147	8235	41 - 244	17987	Gly-2 to Leu-13.	L0748: 3, S0002: 1 and L0601: 1.		
HMSEM34	706366	8236	97 - 333	17988	Glu-5 to Arg-11, Arg-19 to Lys-25, Ser-61 to Gly-69.	S0002: 1 and L0748: 1.		
HMSSEL64	842040	8237	73 - 198	17989	Pro-18 to Thr-23, Arg-29 to Asn-34.	S0002: 1 and L0759: 1.		
HMSSEG67	751865	8238	163 - 2	17990	Arg-5 to Ser-10.	S0002: 1		
HMSDQ15	660654	8239	2 - 166	17991	Glu-31 to Gln-36.	S0002: 1 and L0748: 1.		
HMSDL70	909997	8240	2 - 307	17992	Pro-12 to Glu-21, Gln-29 to Ser-34.	S0002: 1 and L0741: 1.		
HMSDK10	968435	8241	3 - 164	17993		S0002: 1 and L0756: 1.		
HMSDI34	559991	8242	2 - 154	17994	His-1 to Ser-7.	S0002: 1		
HMSDGI2	574950	8243	2 - 238	17995		S0002: 1 and L0741: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HMSDG04	927804	8244	94 - 270	17996		S0002: 1 and L0527: 1.		
HMSDB08	960260	8245	175 - 318	17997	Tyr-15 to Asn-20.	S0002: 1 and L0805: 1.		
HMSDA81	778469	8246	1 - 183	17998	Thr-12 to Ala-17.	S0002: 1 and L0752: 1.		
HMSCY01	921768	8247	1 - 240	17999		S0002: 1 and L0748: 1.		
HMSCW45	723483	8248	3 - 242	18000		L0758: 2, S0002: 1 and L0748: 1.		
HMSCT69	855855	8249	258 - 476	18001		S0002: 1		
HMSCP73	764703	8250	183 - 368	18002		S0002: 1 and L0766: 1.		
HMSCO63	855863	8251	238 - 444	18003	Ser-25 to Pro-31, Ser-45 to Gln-54.	L0748: 2, S0002: 1 and L0762: 1.		
HMSCD07	954243	8252	3 - 161	18004		S0002: 1 and L0592: 1.		
HMSBZ67	973737	8253	1 - 234	18005	Asn-1 to Arg-7.	S0002: 1		
HMSBZ13	855866	8254	2 - 142	18006		S0002: 1 and L0599: 1.		
HMSBY67	752145	8255	213 - 323	18007	Gln-24 to Gly-36.	S0002: 1 and L0777: 1.		
HMSBW54	880721	8256	89 - 289	18008	Leu-1 to Arg-7, Lys-34 to Lys-39.	S0002: 1 and L0766: 1.		

HMSBU24	678709	8257	194 - 475	18009	Asp-4 to Gly-14, Gln-16 to Cys-22, Arg-45 to Trp-56, Val-68 to Val-78.	L0603: 2 and S0002: 1.		
HMSBO95	796724	8258	249 - 377	18010		S0002: 1 and L0749: 1.		
HMSBM92	792970	8259	3 - 140	18011	His-18 to Glu-25.	S0002: 1		
HMSBI82	780229	8260	3 - 188	18012	Tyr-39 to Trp-45.	S0002: 1		
HMSBI56	733772	8261	3 - 68	18013	Asn-11 to Gln-17.	S0002: 1		
HMSBH85	784576	8262	211 - 423	18014	Pro-50 to Cys-55.	S0002: 1 and L0600: 1.		
HMSBH08	958802	8263	981 - 658	18015		S0002: 1		
	958939	9703	451 - 122	19455				
HMSBH07	954457	8264	59 - 382	18016	Gly-30 to Lys-41, Asn-72 to Gly-80.	S0002: 1 and L0655: 1.		
HMSBF92	582654	8265	489 - 253	18017		S0002: 1		
	791382	9704	278 - 475	19456				
HMSBC31	960021	8266	207 - 434	18018	Pro-1 to Lys-14.	S0002: 1 and L0748: 1.		
HMSBA43	715699	8267	43 - 261	18019		S0002: 1, L0766: 1 and L0748: 1.		
HMSAV84	781872	8268	45 - 233	18020		S0002: 1 and L0748: 1.		
HMSAV65	747792	8269	405 - 190	18021		S0002: 1		
HMSAT76	842065	8270	2 - 172	18022	Arg-3 to Ala-15, Ala-26 to Trp-34, Gly-37 to Ser-43.	S0002: 1, L0439: 1 and L0779: 1.		
HMSAQ95	796728	8271	18 - 152	18023	Phe-4 to Ser-11.	S0002: 1 and L0731: 1.		
HMSAQ38	738495	8272	2 - 157	18024		L0740: 2 and S0002: 1.		
HMSAP36	518062	8273	95 - 223	18025	Glu-20 to Glu-26.	S0002: 1		
HMSAQ42	714316	8274	74 - 187	18026		S0002: 1 and L0749: 1.		
HMSAH80	781640	8275	71 - 310	18027	Arg-8 to Arg-14, Arg-26 to Thr-33, Ser-50 to Trp-55.	S0002: 1 and L0748: 1.		
HMQDV06	936015	8276	11 - 415	18028	Thr-18 to Gln-26, Pro-44 to Gln-49, Thr-55 to Lys-60, Arg-100 to Asn-107, Pro-115 to Glu-122.	H0250: 1, L0761: 1 and L0800: 1.		
HMQDQ42	457221	8277	1 - 294	18029	Leu-12 to Asp-18,	H0250: 1 and L0748: 1.		

HMQDL40	711421	8278	121 - 255	18030	Cys-62 to Ser-72. Ala-1 to Ser-7, Pro-29 to Gly-39.	H0250: 1 and L0749: 1.	
HMQCZ36	708066	8279	162 - 386	18031		L0748: 2 and H0250: 1.	
HMQCZ18	574068	8280	1 - 297	18032		H0250: 1 and L0743: 1.	
HMQCX42	712966	8281	57 - 266	18033		L0748: 2 and H0250: 1.	
HMQCV29	974683	8282	2 - 499	18034	Pro-7 to Gln-20.	H0250: 1 and L0766: 1.	
HMQCNI7	385544	8283	124 - 288	18035		H0250: 1, L0779: 1 and L0591: 1.	
HMQCM46	719201	8284	2 - 136	18036	Lys-6 to Lys-15.	H0250: 1	
HMQCM41	711586	8285	2 - 115	18037	Ser-14 to Tyr-20.	H0250: 1	
HMQCM05	932363	8286	40 - 171	18038		H0250: 1	
HMQCH69	754188	8287	1 - 201	18039		H0250: 1 and L0756: 1.	
HMQCH54	728851	8288	195 - 278	18040		L0747: 2 and H0250: 1.	
HMQCB03	963370	8289	1 - 255	18041		L0498: 2 and H0250: 1.	
HMQBN40	779856	8290	204 - 473	18042		H0250: 1 and L0777: 1.	
HMPTA56	921233	8291	3 - 290	18043	Phe-1 to Gly-7, Lys-9 to Pro-23, Arg-65 to Ala-70, Leu-76 to Gln-82, Leu-90 to Pro-95.	H0109: 1	
HMPTA28	685099	8292	171 - 284	18044	Pro-5 to Met-10.	H0109: 1	
HMPSC38	709222	8293	97 - 330	18045		H0109: 1 and L0748: 1.	
HMPBB84	781863	8294	163 - 345	18046	Glu-51 to Ser-57.	H0061: 1	
HMOAD90	600400	8295	2 - 184	18047	Asp-11 to Glu-16, Asp-30 to Asn-39.	H0191: 1	
HMOAD60	855919	8296	2 - 241	18048		AR054: 2, AR051: 2, AR050: 1 H0191: 1	
HMMCL96	796276	8297	316 - 480	18049		L0748: 1 and H0444: 1.	
HMMCI01	913715	8298	187 - 342	18050	Val-22 to Gly-29.	L0785: 1 and H0444: 1.	
HMMCH69	754902	8299	2 - 112	18051		H0444: 1 and L0605: 1.	
HMMCH09	625366	8300	287 - 595	18052	Gln-40 to Gly-46, Ser-72 to His-78, Pro-93 to Trp-99.	L0748: 1 and H0444: 1.	

HMMCD83	875272	8301	315 - 440	18053	Thr-8 to Lys-20.	L0599: 2, L0369: 1 and H0444: 1.		
HMMCD23	675720	8302	1 - 276	18054		L0754: 1 and H0444: 1.		
HMMCA11	966677	8303	28 - 336	18055	Thr-10 to Gly-17, Ser-59 to Ala-66.	L0749: 1 and H0444: 1.		
HMMCA08	958980	8304	81 - 260	18056	Thr-31 to Asp-44.	L0532: 1 and H0444: 1.		
HMMBZ18	666192	8305	247 - 441	18057		L0748: 7, L0766: 3, L0749: 2, L0717: 1, L0527: 1, L0779: 1 and H0444: 1.		
HMMBZ05	566870	8306	75 - 401	18058	Pro-14 to Ser-20, Gln-80 to Trp-87.	AR051: 53, AR050: 53, AR054: 36 L0759: 1 and H0444: 1.		
	882446	9705	314 - 682	19457	Ser-3 to Thr-8.			
HMMBX01	916067	8307	100 - 270	18059		L0758: 1 and H0444: 1.		
HMMBV08	958987	8308	381 - 223	18060		L0769: 1 and H0444: 1.		
HMMBU13	597147	8309	222 - 344	18061		L0600: 2 and H0444: 1.		
HMMBT64	746399	8310	257 - 421	18062		L0748: 1 and H0444: 1.		
HMMBT30	841959	8311	305 - 583	18063	Ser-72 to Asn-77.	L0766: 1 and H0444: 1.		
HMMBT03	855930	8312	99 - 332	18064		H0444: 1		
HMMBQ08	958988	8313	117 - 281	18065	Pro-8 to Lys-15.	L0740: 1 and H0444: 1.		
HMMBO49	722753	8314	22 - 279	18066		L0754: 1 and H0444: 1.		
HMMBO28	686318	8315	1 - 147	18067		L0748: 1 and H0444: 1.		
HMMBN76	769890	8316	327 - 494	18068	Lys-1 to Ile-7.	L0748: 1, L0749: 1 and H0444: 1.		
HMMBN71	973436	8317	95 - 331	18069	Asn-72 to Leu-79.	H0444: 1		
HMMBN54	729352	8318	135 - 398	18070		L0748: 1 and H0444: 1.		
HMMBM83	781010	8319	19 - 192	18071		L0748: 1 and H0444: 1.		
HMMBL55	731523	8320	221 - 373	18072	Pro-8 to Lys-28, Ile-41 to Cys-48.	L0754: 1 and H0444: 1.		
HMMBH64	746402	8321	2 - 193	18073	Ser-23 to Glu-29, Pro-54 to Asp-63.	L0439: 1 and H0444: 1.		
HMMBF86	812597	8322	2 - 163	18074	Arg-20 to Trp-26, Ser-30 to Glu-43.	L0748: 1 and H0444: 1.	12	
HMMBF72	761389	8323	165 - 317	18075	Lys-16 to Lys-51.	H0444: 1 and L0599: 1.		
HMMBF41	711731	8324	366 - 506	18076		H0444: 1 and L0581: 1.		

HMMAV44	716396	8325	183 - 338	18077	Lys-12 to Arg-18.	L0748: 2 and H0444: 1.	
HMMAT23	973437	8326	3 - 305	18078	Arg-1 to Gly-7.	H0444: 1	
HMMAT08	959005	8327	125 - 343	18079	Gln-19 to Leu-25.	H0444: 1 and L0599: 1.	
HMMAS73	764280	8328	376 - 597	18080		L0756: 1 and H0444: 1.	
HMMAR20	669523	8329	373 - 549	18081	Lys-22 to Gly-27.	L0748: 2 and H0444: 1.	
HMMAQ70	757070	8330	324 - 413	18082		L0748: 1 and H0444: 1.	
HMMAO06	935087	8331	453 - 656	18083	Pro-28 to Asn-33, Phe-46 to Gly-52, Thr-61 to Asn-67.	L0638: 1 and H0444: 1.	
HMMAL71	760206	8332	159 - 425	18084	Pro-79 to Ile-84.	H0444: 1	
HMMAL69	754908	8333	213 - 365	18085	Pro-12 to Gln-19.	L0749: 1, H0444: 1 and L0605: 1.	
HMMAL59	738982	8334	246 - 404	18086	Arg-1 to Glu-7.	H0444: 1	
HMMAL54	729351	8335	241 - 357	18087	Glu-2 to Gly-7.	H0444: 1	
HMMAL44	716407	8336	144 - 320	18088	Thr-9 to Trp-19.	L0662: 1, L0749: 1 and H0444: 1.	
HMMAL42	713542	8337	34 - 183	18089	Lys-24 to Val-30, Thr-44 to Arg-49.	H0444: 1	
HMMAL35	707278	8338	97 - 303	18090	Lys-1 to Gln-6, Ser-27 to Lys-43, Glu-50 to Lys-62.	L0529: 1 and H0444: 1.	
HMMAL30	693545	8339	6 - 80	18091		H0444: 1	
HMMAL18	665512	8340	174 - 356	18092		H0444: 1	
HMMAL16	661699	8341	296 - 412	18093	Ser-1 to Lys-32.	H0444: 1	
HMMAK83	781016	8342	193 - 345	18094	Pro-20 to Phe-25.	L0748: 3, L0749: 1 and H0444: 1.	
HMMAH61	741662	8343	142 - 321	18095		L0748: 1 and H0444: 1.	
HMMAF92	973971	8344	265 - 459	18096		H0444: 1	
HMMAF34	842015	8345	297 - 479	18097		L0762: 1 and H0444: 1.	
HMMAE45	720838	8346	55 - 351	18098		L0748: 4, L0367: 1, L0747: 1 and H0444: 1.	
HMMAE16	856007	8347	117 - 344	18099	Ser-23 to Cys-31.	L0754: 1 and H0444: 1.	
HMMAB96	826488	8348	285 - 563	18100		H0444: 1	
HMCIW93	897377	8349	1 - 306	18101	Arg-1 to Gly-16, Thr-30 to Ser-42.	S0344: 1	

HMCCHZ77	771795	8350	2 - 346	18102			AR061: 8, AR089: 5 S0344: 1 and L0748: 1.		
HMCHS34	703691	8351	127 - 273	18103	Arg-18 to Gly-23.		L0748: 3 and S0344: 1.		
HMCHK58	752431	8352	580 - 419	18104			S0344: 1 and L0601: 1.		
HMCGX46	886903	8353	1 - 426	18105	Glu-25 to Asn-32, His-49 to Asn-57.		AR051: 24, AR050: 18, AR054: 10 S0344: 1		
HMCV66	787512	8354	1 - 216	18106	Tyr-16 to Trp-25, Val-49 to Pro-54, Gln-62 to Leu-68.		S0344: 1 and L0747: 1.		
HMCV39	856222	8355	1 - 321	18107			L0455: 1, S0344: 1 and L0439: 1.		
HMCV57	734404	8356	161 - 358	18108			S0344: 1, L0748: 1 and L0756: 1.		
HMCV86	846578	8357	13 - 171	18109	Ser-30 to Gly-36.		S0344: 1 and L0748: 1.		
HMCV04	927002	8358	182 - 343	18110	Lys-16 to Trp-22, Gly-39 to Ala-50.		S0344: 1 and L0517: 1.		
HMCN93	791555	8359	185 - 322	18111	Arg-1 to Val-9.		S0142: 1, L0439: 1 and L0746: 1.		
HMCDC70	757192	8360	98 - 373	18112	Thr-10 to Gly-17, Lys-21 to Pro-30, Pro-45 to Ser-55.		S0142: 1 and L0600: 1.		
HMCAR04	925591	8361	225 - 563	18113	His-1 to Ile-14.		S0142: 1 and L0748: 1.		
HMALZ77	856266	8362	2 - 343	18114	Asn-12 to Gln-17, Gly-25 to Ala-34, Lys-72 to Ser-78.		AR089: 1, AR061: 0 S0278: 1 and L0591: 1.		
HMALK06	933960	8363	61 - 222	18115	Gly-31 to Leu-36.		S0278: 1 and L0456: 1.		
HMAJZ39	751523	8364	2 - 280	18116	Gln-13 to Gln-19.		S0278: 1, L0438: 1 and L0604: 1.		
HMAJL09	950168	8365	2 - 493	18117	Tyr-30 to Ser-35, Arg-94 to Gly-100.		AR089: 0, AR061: 0 S0278: 1		
HMAIU90	886821	8366	1 - 453	18118	Arg-41 to Ala-58, Ala-62 to Ser-71, Leu-88 to Gly-96.		AR051: 19, AR050: 17, AR054: 2 S0278: 1		
HMAIQ20	669436	8367	94 - 303	18119	Asn-16 to Asp-21.		L0745: 2 and S0278: 1.		
HMAIH15	956705	8368	534 - 268	18120	Ala-2 to Trp-7,		AR089: 1, AR061: 0		

HMAIA55	899404	8369	89 - 877	18121	Pro-35 to Asp-46. Pro-28 to Cys-34, Asn-153 to Gly-161, Ala-227 to Asn-233.	S0278: 1 AR051: 37, AR061: 9, AR054: 6, AR089: 4, AR050: 1 S0278: 1		
HMAHP37	566344	8370	177 - 440	18122	Gln-17 to Gly-27.	S0278: 1		
HMAGT95	795686	8371	22 - 330	18123	Cys-44 to Ser-52, Arg-96 to Leu-103.	S0278: 1 and L0742: 1.		
HMAGS90	788683	8372	58 - 258	18124	Phe-4 to Leu-11, Pro-14 to Leu-20.	L0777: 2 and S0278: 1.		
HMAGI39	910152	8373	118 - 321	18125		L0776: 2 and S0278: 1.	19q13.4	134790, 191044, 600040, 600138
HMAFF71	760304	8374	2 - 550	18126		L0731: 2, S0144: 1 and L0750: 1.		
HMAFC96	796348	8375	32 - 448	18127	Arg-1 to Ser-13, Gly-24 to Pro-33, Ser-44 to Glu-50.	S0144: 1 and L0748: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HMAEK93	791549	8376	355 - 582	18128	Ser-24 to Lys-39, Trp-52 to Pro-58.	S0144: 1 and L0731: 1.		
HMADF74	944465	8377	144 - 1145	18129	Gly-5 to Glu-16, Gly-28 to Ser-34, Pro-186 to Pro-196, Ser-213 to Asn-219, Ser-249 to Ile-267.	AR089: 12, AR061: 8 S0144: 1		
HMACZ84	975349	8378	147 - 353	18130	His-7 to Phe-13.	S0144: 1		

HMACV54	922354	8379	421 - 170	18131	Thr-50 to Phe-62, Pro-69 to His-75.	AR089: 21, AR061: 16 S0144: 1 and L0767: 1.		
HMABT55	753560	8380	27 - 275	18132		S0144: 1 and L0756: 1.		
HMABD66	388074	8381	138 - 383	18133		AR061: 0, AR089: 0 S0144: 1		
HLYHN64	970747	8382	26 - 397	18134		L0748: 3 and H0445: 1.		
HLYHN40	710825	8383	125 - 256	18135	Gly-14 to His-20.	L0745: 1 and H0445: 1.		
HLYHL55	731447	8384	213 - 443	18136		L0754: 1 and H0445: 1.		
HLYHK64	746310	8385	87 - 215	18137	Asn-25 to Ile-30.	L0744: 1, L0748: 1 and H0445: 1.		
HLYHK61	932994	8386	1 - 549	18138	Lys-61 to Ser-68, Ser-91 to Lys-96.	L0747: 2, L0748: 1, L0750: 1 and H0445: 1.		
HLYHK34	703776	8387	298 - 519	18139	Lys-37 to Lys-71.	AR089: 1, AR061: 1 L0766: 1, L0754: 1 and H0445: 1.		
HLYHJ37	708625	8388	257 - 421	18140	Pro-16 to Ser-22, Ala-32 to Lys-39.	L0439: 1 and H0445: 1.		
HLYHJ02	919201	8389	232 - 444	18141	Ile-17 to Ser-23, Gln-39 to Ser-57.	L0758: 1 and H0445: 1.		
HLYHI05	953925	8390	424 - 20	18142	Asn-98 to Tyr-105, Lys-130 to His-135.	L0766: 1 and H0445: 1.		
HLYHF62	743058	8391	89 - 277	18143	Asn-13 to Glu-18.	H0445: 1 and L0361: 1.		
HLYHE85	784140	8392	294 - 506	18144	Ser-18 to Cys-33, Asn-36 to His-42.	L0766: 1 and H0445: 1.		
HLYHA48	721372	8393	170 - 466	18145	Asn-1 to Pro-8, Leu-58 to Gln-64.	L0766: 5 and H0445: 1.		
HLYHA04	614848	8394	83 - 229	18146	Ser-17 to Gly-22.	L0748: 2 and H0445: 1.		
HLYGZ71	760115	8395	275 - 613	18147	Gly-8 to Leu-13, Pro-46 to Val-51, Leu-56 to Arg-64, Val-100 to Gln-110.	L0761: 1 and H0445: 1.		
HLYGZ11	966503	8396	194 - 430	18148		L0598: 1, L0648: 1 and H0445: 1.		
HLYGY60	740081	8397	119 - 397	18149		L0748: 2, L0766: 1, L0439: 1, L0750: 1, L0755: 1, H0445: 1 and L0601: 1.		

HLYGW95	795682	8398	110 - 373	18150	Val-15 to Pro-20, Pro-41 to Leu-46, Leu-50 to Leu-57, Gly-63 to His-77, Ser-81 to Gly-87.	L0749: 1, L0777: 1 and H0445: 1.		
HLYGR56	733123	8399	481 - 636	18151		L0731: 1 and H0445: 1.		
HLYGQ29	689972	8400	91 - 213	18152	Lys-14 to Thr-25.	L0754: 2 and H0445: 1.		
HLYGQ11	966539	8401	45 - 194	18153		L0766: 1 and H0445: 1.		
HLYGM76	769835	8402	235 - 450	18154	Thr-13 to Glu-18, Lys-50 to Ile-55.	H0445: 1 and L0362: 1.		
HLYGM08	958820	8403	110 - 3	18155	Lys-6 to Tyr-36.	L0754: 1 and H0445: 1.		
HLYGJ76	685240	8404	388 - 564	18156		H0445: 1 and L0605: 1.		
HLYGH51	871634	8405	162 - 464	18157	Ser-68 to Ala-73.	AR089: 1, AR061: 0 L0748: 1 and H0445: 1.		
HLYGD69	754841	8406	108 - 302	18158	Ala-23 to Gly-28.	L0753: 1 and H0445: 1.		
HLYGB38	709187	8407	19 - 279	18159	Pro-65 to Gln-71.	L0748: 2 and H0445: 1.		
HLYFW38	709185	8408	114 - 392	18160	Leu-7 to Ser-12, Ile-21 to Ala-29, Ser-35 to Ser-41, Pro-43 to Tyr-48.	L0748: 2, L0749: 1 and H0445: 1.		
HLYFU24	856392	8409	362 - 532	18161		H0445: 1 and L0599: 1.		
HLYFR17	859567	8410	271 - 582	18162	Pro-59 to Pro-65.	L0747: 1 and H0445: 1.		
HLYFP56	871637	8411	173 - 391	18163	Ile-47 to Gln-73.	L0766: 3 and H0445: 1.		
HLYFO29	690381	8412	308 - 496	18164	Glu-42 to Ser-52.	H0445: 1 and L0596: 1.		
HLYFE11	966519	8413	103 - 276	18165	Gln-27 to Trp-42.	L0749: 1 and H0445: 1.		
HLYFD51	725116	8414	3 - 548	18166	Thr-4 to Met-17, Ser-21 to Tyr-27, Lys-40 to Asp-56.	L0157: 1, L0766: 1, L0439: 1 and H0445: 1.		
HLYFC54	729299	8415	91 - 249	18167		H0445: 1 and L0600: 1.		
HLYEV46	889678	8416	213 - 443	18168		L0788: 1 and H0445: 1.		
	889804	9706	497 - 757	19458				
HLYEV42	856395	8417	107 - 448	18169	Ser-31 to Asn-37, Gln-46 to Cys-53.	L0748: 1 and H0445: 1.		
HLYET54	729406	8418	281 - 556	18170		L0748: 1 and H0445: 1.		
HLYET48	721501	8419	310 - 429	18171		L0439: 1 and H0445: 1.		

HLYET17	662764	8420	1 - 141	18172			L0748: 1 and H0445: 1.	
HLYES45	717640	8421	296 - 643	18173			L0439: 1 and H0445: 1.	
HLYPE59	739151	8422	228 - 536	18174			L0748: 2 and H0445: 1.	
HLYEO83	781038	8423	214 - 477	18175		Ser-79 to Ile-88.	L0596: 2 and H0445: 1.	
HLYEO37	708623	8424	399 - 551	18176		Thr-12 to Val-19.	L0748: 1 and H0445: 1.	
HLYEL71	760220	8425	296 - 550	18177		Arg-28 to Gln-36.	L0777: 1 and H0445: 1.	
HLYED44	716430	8426	3 - 353	18178		Lys-1 to Trp-7, Pro-31 to Ser-37, Pro-46 to Asn-61, Gly-81 to Thr-90.	L0753: 1 and H0445: 1.	
HLYEC21	670678	8427	2 - 163	18179		Cys-44 to Cys-50.	L0756: 1 and H0445: 1.	
HLYEB11	966748	8428	85 - 351	18180			L0748: 4 and H0445: 1.	
HLYEA92	561537	8429	5 - 115	18181		Asp-13 to Asp-18.	AR054: 16, AR050: 8, AR051: 1 H0445: 1	
HLYEA86	488801	8430	135 - 326	18182		Ser-9 to Ser-14, Phe-40 to Asn-45.	L0748: 1 and H0445: 1.	
HLYEA70	943886	8431	1 - 423	18183		Val-87 to Gln-93, Tyr-123 to Gln-130.	AR054: 15, AR050: 2, AR051: 1 H0445: 1	
HLYEA49	722787	8432	33 - 161	18184		Gln-21 to Ser-27.	H0445: 1 and L0599: 1.	
HLYDY72	761359	8433	275 - 478	18185			H0445: 1 and L0599: 1.	
HLYDX40	856401	8434	94 - 450	18186		Ser-56 to Asn-65, Lys-84 to Arg-91, Lys-114 to Ser-119.	L0740: 1 and H0445: 1.	
HLYDV57	800224	8435	72 - 152	18187		Leu-1 to Arg-6.	L0745: 1 and H0445: 1.	
HLYDU14	658035	8436	281 - 445	18188		Ser-47 to Gly-52.	L0748: 1 and H0445: 1.	
HLYDT27	856405	8437	262 - 453	18189		Leu-58 to Arg-64.	L0758: 2 and H0445: 1.	
HLYDT09	972424	8438	160 - 411	18190		Asp-58 to Ser-65.	H0445: 1	
HLYDQ75	767176	8439	203 - 502	18191		Gln-15 to Leu-36, Lys-78 to Thr-85.	L0749: 1 and H0445: 1.	
HLYDO45	717079	8440	3 - 224	18192			L0518: 5, L0748: 1 and H0445: 1.	
HLYDK95	973370	8441	140 - 376	18193		His-10 to Glu-16, Ser-23 to Cys-30.	H0445: 1	
HLYDI03	923826	8442	197 - 388	18194		Pro-9 to Val-22.	L0041: 1 and H0445: 1.	

HLYDG74	939025	8443	134 - 481	18195	Pro-31 to Gly-43.	L0438: 1, L0439: 1 and H0445: 1.		
HLYDG42	713579	8444	213 - 368	18196		L0748: 1 and H0445: 1.		
HLYDF07	932940	8445	120 - 290	18197		L0761: 1 and H0445: 1.		
HLYDD60	740212	8446	39 - 125	18198	Asn-15 to Asp-29.	L0766: 1 and H0445: 1.		
HLYDB08	959076	8447	20 - 160	18199	His-1 to Gly-9, Thr-13 to Tyr-18, Asn-21 to Glu-26.	L0749: 1 and H0445: 1.		
HLYCX70	757087	8448	257 - 604	18200	Ala-8 to Ser-14, Pro-64 to Arg-69.	L0748: 3 and H0445: 1.		
HLYCX34	703910	8449	39 - 227	18201		L0748: 1 and H0445: 1.		
HLYCX18	943714	8450	2 - 412	18202	Arg-7 to Arg-16.	AR061: 113, AR089: 106 L0777: 1 and H0445: 1.		
HLYCX02	919563	8451	1 - 138	18203	Ser-29 to Gly-40.	L0731: 1 and H0445: 1.		
HLYCU59	679219	8452	229 - 405	18204	Thr-49 to Cys-58.	L0756: 2 and H0445: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HLYQCQ43	825509	8453	257 - 466	18205	Arg-64 to Arg-69.	H0445: 1		
HLYCP63	856424	8454	14 - 184	18206	Gly-15 to Thr-21.	L0523: 1 and H0445: 1.		
HLYCO03	923844	8455	157 - 387	18207	Glu-37 to Tyr-42.	L0777: 2, L0731: 2 and H0445: 1.		
HLYCM14	657589	8456	104 - 322	18208	Lys-7 to Arg-12, Phe-35 to Gly-54.	L0748: 1 and H0445: 1.		
HLYCL69	914887	8457	372 - 509	18209		L0748: 1 and H0445: 1.	4q11-q13	103600, 103600, 103600, 104150, 104150, 104500, 125490, 170650
HLYCF51	725067	8458	172 - 396	18210	Glu-16 to Ser-34.	L0769: 2, L0666: 1, L0748: 1, L0747: 1, L0749: 1 and H0445: 1.		
HLYCF37	949401	8459	1018 - 1341	18211	His-1 to Gly-23, Arg-43 to Leu-50, Pro-52 to Glu-59, Leu-77 to Lys-108.	AR089: 31, AR061: 5 H0445: 1		

HLGCC19	668745	8460	229 - 369	18212	Arg-23 to Ser-31, Thr-41 to His-46.	L0748: 1 and H0445: 1.	
HLVCB86	785544	8461	106 - 204	18213		L0754: 1 and H0445: 1.	
HLVCB11	967162	8462	76 - 258	18214		L0731: 3, L0779: 1, H0445: 1 and L0362: 1.	
HLVBX91	790234	8463	587 - 778	18215		L0766: 3 and H0445: 1.	
HLVBV44	485853	8464	80 - 193	18216	Glu-22 to Cys-31.	H0445: 1	
	516686	9707	293 - 448	19459	Ser-1 to Gln-9, Arg-20 to Tyr-34.		
HLYBN17	463988	8465	150 - 317	18217		L0766: 3 and H0445: 1.	
HLYBM44	715879	8466	14 - 328	18218		L0742: 1 and H0445: 1.	
HLYBJ17	664101	8467	221 - 415	18219		H0445: 1 and L0599: 1.	
HLYBH84	850444	8468	165 - 443	18220	Pro-67 to Ser-72, His-75 to Gln-86.	AR054: 14, AR051: 13, AR050: 0 H0445: 1	
HLYBH68	580582	8469	220 - 486	18221	Thr-40 to Ser-57.	AR050: 18, AR054: 11, AR051: 5 H0445: 1	
HLYBG85	783508	8470	1 - 246	18222	Asn-36 to Arg-46.	L0748: 1 and H0445: 1.	
HLYBA50	880734	8471	2 - 232	18223	Thr-23 to Cys-39.	L0766: 2 and H0445: 1.	
HLYBA06	935611	8472	295 - 441	18224		L0521: 1, L0766: 1 and H0445: 1.	
HLYAX75	767225	8473	172 - 294	18225	Arg-25 to Leu-32.	H0445: 1	
HLYAX32	699337	8474	129 - 200	18226	Thr-6 to Asp-19.	L0663: 1, H0445: 1 and L0599: 1.	
HLYAU15	782335	8475	163 - 414	18227	Thr-25 to Ser-30.	L0748: 1, L0752: 1, L0758: 1 and H0445: 1.	
HLYAS35	856469	8476	96 - 293	18228		H0445: 1 and L0592: 1.	
HLYAR25	678179	8477	205 - 378	18229	Thr-52 to Lys-58.	L0777: 1 and H0445: 1.	
HLYAQ92	792770	8478	169 - 303	18230	Asp-33 to Gln-40.	L0740: 1 and H0445: 1.	
HLYAQ70	757235	8479	220 - 483	18231		L0748: 4 and H0445: 1.	
HLYAQ69	754229	8480	1 - 267	18232	Thr-50 to Ile-85.	L0754: 1 and H0445: 1.	
HLYAN68	815950	8481	182 - 337	18233		H0445: 1	
HLYAN21	854034	8482	126 - 302	18234	Lys-6 to Ser-17.	H0445: 1	
HLYAN10	964834	8483	369 - 521	18235		L0761: 1, L0517: 1, H0445:	

HLVAL58	736097	8484	433 - 606	18236			1 and L0599: 1.		
HLVAL22	856473	8485	214 - 456	18237		Ser-1 to Asp-6, Gly-60 to Gly-66.	L0439: 2 and H0445: 1. L0369: 1 and H0445: 1.		
HLVAL11	967173	8486	100 - 294	18238		Gln-35 to Phe-47, Glu-55 to Gln-64.	L0766: 1, L0606: 1 and H0445: 1.		
HLYAK36	708028	8487	192 - 356	18239			L0749: 1, H0445: 1 and L0599: 1.		
HLYAK34	421604	8488	36 - 164	18240			L0745: 7, L0746: 3 and H0445: 1.		
HLYAJ49	723039	8489	150 - 383	18241			L0483: 1, L0750: 1 and H0445: 1.		
HLYAG59	888232	8490	157 - 441	18242		Ile-6 to Met-21.	AR051: 9, AR050: 3 H0445: 1		
HLTHS37	708613	8491	205 - 432	18243		Asp-1 to Asn-15, Pro-31 to Gly-41.	L0748: 2 and H0591: 1.		
HLTHS02	856560	8492	23 - 217	18244		Phe-42 to Thr-49, Ile-51 to Ser-56.	H0591: 1 and L0748: 1.		
HLTHC37	708620	8493	172 - 453	18245		Ser-21 to Glu-27, Asp-38 to Asn-45.	H0591: 1, L0659: 1 and L0439: 1.		
HLTGT83	780903	8494	23 - 199	18246			H0591: 1 and L0439: 1.		
HLTGT36	708027	8495	516 - 740	18247			L0796: 2, L0747: 2, H0591: 1 and L0791: 1.		
HLTGS17	662409	8496	350 - 502	18248		Pro-5 to Asn-12.	H0591: 1 and L0748: 1.		
HLTGR28	693990	8497	1 - 231	18249			H0591: 1 and L0748: 1.		
HLTGP47	719975	8498	182 - 379	18250		Gln-36 to Arg-52.	H0591: 1 and L0604: 1.		
HLTGO89	786674	8499	1 - 129	18251		Thr-24 to Ala-30.	H0591: 1 and L0439: 1.		
HLTGN92	791185	8500	153 - 242	18252			L0748: 3 and H0591: 1.		
HLTGA40	710728	8501	153 - 413	18253			L0758: 2, H0591: 1 and L0439: 1.		
HLTEZ30	960911	8502	209 - 331	18254		Leu-18 to Asp-33.	L0748: 2 and H0090: 1.		
HLTEZ19	671610	8503	2 - 172	18255		Ser-2 to Arg-7, Leu-48 to Trp-54.	L0748: 2, L0749: 2, H0090: 1, L0756: 1 and L0758: 1.		
HLTEX27	927578	8504	163 - 327	18256		Pro-27 to Asp-33.	H0090: 1 and L0748: 1.		
HLTEV66	772965	8505	1 - 192	18257		Lys-19 to Asn-38.	H0090: 1 and L0731: 1.		

HLTEP45	723375	8506	289 - 426	18258	Arg-1 to Lys-12.	H0090: 1 and L0362: 1.	
HLTEM25	678685	8507	2 - 190	18259	Cys-3 to Lys-11, Ile-30 to Phe-36.	H0090: 1 and L0766: 1.	
HLTEG51	494330	8508	597 - 298	18260		H0090: 1	
	514122	9708	169 - 435	19460			
HLTEG37	417243	8509	2 - 253	18261	Ser-58 to Gly-64.	H0090: 1 and L0789: 1.	
HLTEC83	574630	8510	52 - 165	18262	Asp-5 to Gly-11.	H0090: 1	
HLTEC35	574632	8511	131 - 247	18263	Asn-13 to Pro-21.	H0090: 1	
HLTEA20	609900	8512	298 - 594	18264	Ser-14 to Pro-19.	L0749: 2, H0090: 1, L0438: 1 and L0758: 1.	
HLTDR43	715529	8513	3 - 140	18265	Tyr-8 to Leu-19.	L0438: 2, L0754: 2, H0090: 1, L0803: 1, L0352: 1 and L0439: 1.	
HLTDJ17	577379	8514	370 - 603	18266		H0090: 1, L0766: 1, L0745: 1, L0747: 1 and L0779: 1.	
HLTDH96	796560	8515	165 - 287	18267		H0090: 1 and L0748: 1.	250100, 250800, 250800
HLTDG59	739699	8516	68 - 352	18268		H0090: 1 and L0748: 1.	
HLTDG30	693329	8517	3 - 119	18269	Cys-10 to Pro-16, Glu-34 to Pro-39.	H0090: 1 and L0746: 1.	
HLTDB38	456860	8518	262 - 432	18270		L0748: 2 and H0090: 1.	
HLTCZ55	732385	8519	142 - 270	18271	Pro-38 to Ser-43.	H0090: 1 and L0758: 1.	
HLTCX39	705648	8520	1 - 336	18272		H0090: 1 and L0596: 1.	
HLTCT77	772458	8521	165 - 368	18273		H0090: 1 and L0745: 1.	1p21 102770, 120280, 120280, 166600, 170995, 232400, 232400, 600309, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HLTCR77	772457	8522	154 - 303	18274		H0090: 1 and L0745: 1.	
HLTCR11	967559	8523	3 - 200	18275	Pro-54 to Lys-61.	H0090: 1 and L0363: 1.	
HLTCM59	442563	8524	2 - 208	18276		H0090: 1	
	739501	9709	26 - 241	19461	Lys-11 to Ser-16.		
HLTCI43	715530	8525	3 - 335	18277	Thr-16 to Arg-23,	H0090: 1 and L0439: 1.	

						Ser-35 to Leu-51, Arg-62 to Thr-75, Ser-80 to Ser-88.				
HLTC11	967541	8526	152 - 295	18278		Gln-1 to Ser-6, Gln-23 to Phe-31.			H0090: 1, L0769: 1 and L0758: 1.	
HLTCH41	507362	8527	93 - 365	18279		Lys-9 to Leu-21, Asn-49 to Arg-55, Gly-62 to Ser-69.			H0090: 1 and L0754: 1.	
HLTBU47	720662	8528	235 - 354	18280					H0090: 1 and L0748: 1.	
HLTBU44	522741	8529	175 - 447	18281		Lys-6 to Ser-13, Arg-29 to Arg-48, Val-50 to Ser-56.			H0090: 1	
HLTBS07	954407	8530	2 - 106	18282					H0090: 1 and L0659: 1.	
HLTBF58	735194	8531	157 - 354	18283					H0090: 1 and L0745: 1.	
HLTBF56	907024	8532	302 - 526	18284		Asn-36 to Arg-48.			L0766: 3 and H0090: 1.	
HLTBA68	753857	8533	241 - 420	18285		Tyr-1 to Lys-6.			L0439: 2, H0090: 1 and L0745: 1.	
HLTBA41	712721	8534	273 - 491	18286		Tyr-44 to Asn-52, Ser-64 to Gln-69.			L0748: 2, H0090: 1 and L0749: 1.	
HLTBA35	707243	8535	124 - 378	18287		Lys-17 to Ser-30, Gln-44 to Glu-52.			H0090: 1 and L0731: 1.	
HLTAM07	954419	8536	3 - 215	18288		Ser-7 to Pro-13.			H0090: 1, L0766: 1 and L0776: 1.	
HLTAK57	735163	8537	1 - 90	18289		Thr-24 to Ser-30.			H0090: 1 and L0756: 1.	
HLTAA39	710361	8538	444 - 647	18290		Cys-1 to Trp-6.			L0740: 2, H0090: 1, L0439: 1 and L0777: 1.	
HLTAA27	684649	8539	3 - 92	18291					L0754: 3 and H0090: 1.	
HLMNU01	916641	8540	223 - 366	18292					H0255: 1 and L0766: 1.	
HLMNQ18	666544	8541	245 - 442	18293					L0749: 3 and H0255: 1.	
HLMMZ09	575837	8542	151 - 324	18294		Gly-1 to Trp-17, Ala-51 to Tyr-58.			H0255: 1	
HLMMT20	830074	8543	80 - 166	18295					L0748: 2, H0255: 1, L0471: 1 and L0766: 1.	
HLMMR90	575905	8544	1 - 522	18296		Gly-1 to Ser-8, Leu-21 to Gly-30.			AR051: 30, AR050: 30, AR054: 20 H0255: 1 and L0599: 1.	

HLMMK61	532605	8545	506 - 129	18297	Gln-9 to Trp-15, Thr-45 to Lys-50, Gln-61 to Leu-66, Trp-79 to Val-87.	AR051: 38, AR054: 35, AR050: 33 H0255: 1		
	856817	9710	197 - 3	19462				
	856818	9711	3 - 263	19463	Cys-1 to Gly-8, Gln-13 to Trp-19, Thr-49 to Lys-54, Gln-65 to Leu-70.			
	724485	8546	1 - 207	18298			H0255: 1, L0534: 1 and L0757: 1.	
HLMMK50	811320	8547	158 - 352	18299	Pro-9 to Lys-16.	H0255: 1 and L0754: 1.		
HLMMF94	916816	8548	38 - 382	18300		H0255: 1 and L0766: 1.		
HLMMF01	714439	8549	198 - 542	18301	Ser-20 to Arg-25, Gly-51 to Leu-58, Leu-84 to Glu-90.	L0748: 4, H0255: 1, L0761: 1, L0768: 1 and L0747: 1.		
HLMME43								
HLMY59	878870	8550	153 - 356	18302	Val-39 to Asn-49.	H0255: 1		
HLMIG57	835799	8551	209 - 451	18303	Ala-6 to Glu-19, Ser-49 to Leu-56.	AR054: 19, AR050: 10, AR051: 2		
						H0255: 1 and L0754: 1.		
HLMHW80	775382	8552	177 - 446	18304	Pro-1 to Lys-6, Gly-27 to Lys-42.	H0255: 1 and L0748: 1.		
HLMHT61	742044	8553	246 - 398	18305		H0255: 1 and L0754: 1.		
HLMHT49	722191	8554	253 - 411	18306		H0255: 1 and L0581: 1.		
HLMHL66	910804	8555	1 - 252	18307	Pro-32 to Ser-39.	AR050: 11, AR054: 10, AR061: 6, AR089: 3, AR051: 3		
						H0255: 1		
HLMHL03	856859	8556	183 - 1	18308	Lys-1 to Lys-15, Gln-50 to Arg-61.	H0255: 1 and L0603: 1.		
HLMFU46	718075	8557	276 - 443	18309	Arg-14 to Arg-21.	H0255: 1 and L0747: 1.		
HLMFL88	574812	8558	1 - 756	18310	Ala-61 to Glu-70, Pro-90 to Arg-98.	H0255: 1		
HLMFG79	974552	8559	49 - 234	18311	Thr-23 to Gly-29.	H0255: 1		
HLMFE91	531212	8560	3 - 434	18312		H0255: 1		
HLMFE79	531213	8561	190 - 402	18313		H0255: 1		

HLMFE17	531218	8562	2 - 151	18314			H0255: 1			
HLMFD62	754076	8563	140 - 289	18315		Pro-2 to Ser-7, Glu-26 to Pro-31.	L0439: 3 and H0255: 1.			
HLM DX01	921546	8564	160 - 414	18316			H0254: 1, L0748: 1 and L0777: 1.			
HLM DH08	960055	8565	1 - 258	18317		Glu-13 to Ser-22, Ser-34 to Pro-39, Lys-50 to Gly-61, Leu-63 to Lys-68.	L0748: 4, L0770: 2, H0254: 1, L0749: 1, L0777: 1 and L0599: 1.			
HLM DC26	684911	8566	132 - 377	18318		Gly-20 to Lys-32.	H0254: 1 and L0740: 1.			
HLM CL59	529908	8567	59 - 238	18319		Glu-22 to Leu-31.	L0748: 2 and H0254: 1.			
HLM CI55	741635	8568	3 - 344	18320		Pro-14 to Gly-21, Asp-24 to His-30, Ala-36 to Ala-51.	H0254: 1, L0756: 1 and L0758: 1.			
HLM BX91	879359	8569	94 - 627	18321		Pro-6 to Ser-15, Pro-87 to Arg-105, Gly-165 to Ala-170.	AR051: 13, AR054: 9, AR050: 3 H0255: 1			
HLM BQ54	730952	8570	94 - 369	18322		Arg-9 to Ser-26, Cys-55 to Lys-60.	H0255: 1 and L0748: 1.			
HLM BQ48	560848	8571	175 - 336	18323		Ser-39 to Arg-52.	H0255: 1			
	562006	9712	175 - 336	19464		Ser-39 to Arg-52.				
HLM BN04	615620	8572	84 - 254	18324			H0255: 1 and L0439: 1.			
HLM AV56	733708	8573	305 - 553	18325			L0777: 2 and H0254: 1.			
HLM AI82	523694	8574	3 - 113	18326			H0254: 1			
HLM AE86	852563	8575	88 - 291	18327			H0254: 1, L0766: 1, L0755: 1 and L0731: 1.			
HLL CD85	783454	8576	3 - 527	18328		Pro-2 to Asp-13, Pro-30 to Glu-37, Pro-56 to Lys-76, Lys-83 to Ile-98, Gly-105 to Ser-113, Gln-147 to Glu-152, Asp-154 to Lys-175.	H0354: 1, L0747: 1, L0750: 1 and L0591: 1.			
HLK DC76	933502	8577	157 - 867	18329			H0611: 1, L0740: 1, L0593: 1 and L0601: 1.	19p13.1	143890, 151440, 600173, 600276, 600310, 600310,	

HLKDB78	773172	8578	105 - 278	18330	Ser-30 to Arg-39.	L0439: 2, H0611: 1 and L0756: 1.	601604, 601843
HLKDB02	918870	8579	126 - 269	18331	Lys-19 to Arg-36.	H0611: 1 and L0605: 1.	
HLEAN30	843294	8580	161 - 328	18332	Tyr-1 to Tyr-6.	H0073: 1	
	886013	9713	235 - 633	19465	Phe-43 to Met-48, Phe-89 to Trp-95, Ser-118 to Thr-130.		
HLCDA67	887375	8581	1 - 633	18333		AR054: 3, AR089: 2, AR061: 2, AR051: 1, AR050: 1 H0607: 1	
HKBBV11	965170	8582	237 - 398	18334	Ser-1 to Val-6, Gln-23 to Trp-33, Phe-36 to Arg-41.	L0471: 1 and H0625: 1.	
HKBBP05	928316	8583	34 - 171	18335		H0625: 1, L0761: 1 and L0748: 1.	
HKBAL06	934160	8584	265 - 540	18336		L0535: 2, H0625: 1 and L0759: 1.	
HKBAJ12	969644	8585	273 - 497	18337		L0766: 5 and H0625: 1.	
HKBAB02	918568	8586	522 - 226	18338		H0625: 1 and L0764: 1.	
HJUBA59	888006	8587	170 - 478	18339	His-26 to Leu-34, Pro-41 to Thr-54, Asp-64 to Ser-69.	AR051: 97, AR050: 79, AR054: 77 L0748: 3, H0129: 1, L0438: 1, L0439: 1, L0747: 1, L0749: 1, L0756: 1 and L0777: 1.	
HJTRB51	470587	8588	428 - 252	18340		H0022: 1 and L0766: 1.	
	618324	9714	261 - 443	19466			
	724786	9715	269 - 463	19467	Ser-7 to Met-12.		
	724787	9716	367 - 534	19468			
HJPDK80	418622	8589	726 - 914	18341	Pro-16 to Ser-28.	L0766: 2, L0749: 2, H0083: 1, L0777: 1 and L0590: 1.	
HJPDK57	768274	8590	1 - 195	18342	Pro-51 to Ser-56.	H0083: 1	
	857395	9717	597 - 860	19469			
HJPD116	518105	8591	13 - 237	18343	Pro-1 to Pro-17.	H0083: 1 and L0666: 1.	

HJPDE23	574115	8592	45 - 212	18344		H0083: 1		
HJPDD82	857401	8593	475 - 639	18345	Ser-30 to Asn-36.	L0748: 3, L0777: 2, H0083: 1, L0775: 1, L0744: 1, L0759: 1 and L0592: 1.		
HJPCW09	536677	8594	1 - 186	18346		H0083: 1	1q32.1	134580, 145260, 600105, 600759, 601975
HJPCV54	733607	8595	129 - 434	18347		H0083: 1 and L0751: 1.	17qter	
HJPCS54	871807	8596	473 - 619	18348		H0083: 1 and L0750: 1.		
HJPBP22	577455	8597	2 - 145	18349	Arg-39 to Arg-44.	H0083: 1	10q23-q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 601493, 602082
HJPBA04	615585	8598	172 - 423	18350		H0083: 1 and L0608: 1.		
HJPAZ91	882668	8599	1 - 522	18351	Ile-23 to Gly-28, Val-30 to Lys-35.	H0083: 1, L0740: 1, L0754: 1 and L0745: 1.		
HJPAY56	909242	8600	3 - 212	18352		AR061: 4, AR089: 3		
HJPAX11	967599	8601	367 - 483	18353		H0083: 1 and L0593: 1.		
HJPAT79	781697	8602	2 - 325	18354	Thr-4 to Thr-18, Leu-33 to Arg-43, Pro-66 to Gly-79.	H0083: 1, L0803: 1 and L0748: 1.		
HJPAG38	709103	8603	222 - 371	18355	Tyr-39 to Gly-44.	H0083: 1 and L0731: 1.		
HJPAA60	586675	8604	3 - 536	18356	Ile-73 to Thr-80, Asn-125 to Gln-136.	L0600: 3 and H0083: 1.		
HJKSC56	578366	8605	248 - 421	18357		AR054: 9, AR089: 1, AR050: 1, AR061: 1, AR051: 0		
HJBDM21	793381	8606	60 - 383	18358	Asn-54 to Gln-60, Phe-92 to Arg-98.	L0731: 2 and H0083: 1.		
HJBDL70	757378	8607	65 - 709	18359	Phe-50 to Ser-58.	H0202: 1		
HJB DG36	607769	8608	347 - 87	18360	Pro-34 to Trp-46.	L0748: 2 and T0042: 1.		
						L0439: 2 and T0042: 1.		
						T0042: 1		

	857433	9718	1 - 222	19470					
	895313	9719	527 - 778	19471					
	902075	9720	1098 - 1544	19472					
HJBD63	745286	8609	214 - 423	18361	Ile-1 to Arg-12, Arg-14 to Thr-19.			T0042: 1 and L0604: 1.	
HJBD11	967480	8610	470 - 700	18362	Leu-2 to Cys-13, Ser-32 to Cys-39.			L0777: 2, L0752: 2, T0042: 1, L0659: 1 and L0731: 1.	
HJBCZ05	925805	8611	19 - 867	18363	Arg-1 to Pro-8, Ala-33 to Ala-39.			T0042: 1 and L0740: 1.	
HJBCM55	732411	8612	163 - 456	18364				T0042: 1 and L0748: 1.	
HJBBG54	728810	8613	415 - 570	18365	Leu-5 to Gly-10, Pro-31 to Cys-52.			L0777: 2 and T0042: 1.	
HJBBF02	921242	8614	1 - 630	18366	Ile-1 to Ser-10, Gln-43 to Asp-49, Thr-118 to Thr-124, Ala-141 to Thr-146, Ser-155 to Glu-160.			L0599: 2, T0042: 1 and L0748: 1.	
HJBBE51	725948	8615	86 - 244	18367	Thr-23 to Lys-31.			T0042: 1 and L0748: 1.	
HJBBE07	954376	8616	325 - 471	18368				T0042: 1 and L0753: 1.	
HJBBD59	739633	8617	61 - 240	18369	Pro-1 to Arg-10, Pro-13 to Arg-19.			L0439: 2 and T0042: 1.	
HJBAP94	796835	8618	127 - 330	18370	Pro-22 to Pro-29.			L0591: 2, T0042: 1 and L0748: 1.	
HJACI60	577525	8619	84 - 233	18371				T0041: 1, L0740: 1 and L0754: 1.	
HJACH13	660943	8620	11 - 175	18372				L0439: 3, L0758: 3, L0779: 2, T0041: 1, L0771: 1, L0766: 1, L0803: 1, L0438: 1 and L0749: 1.	
HJABZ11	967665	8621	242 - 448	18373	Val-1 to Ser-8.			L0759: 2 and T0041: 1.	
HJABX39	709556	8622	189 - 656	18374	Pro-10 to Asn-16, Ser-63 to Glu-69, Ala-73 to Cys-79, Phe-83 to Thr-89, Trp-106 to Arg-120.			L0747: 2 and T0041: 1.	
HJABQ75	567249	8623	498 - 836	18375	Ser-1 to Ala-10,			T0041: 1	

HJABK84	783237	8624	1 - 567	18376	Leu-51 to His-71, Glu-79 to Gly-93.	L0740: 4 and T0041: 1.		
HJABK16	667399	8625	178 - 327	18377	Pro-10 to Glu-18, Leu-94 to Pro-100, Ser-106 to Asp-117, Thr-155 to Gly-162, Ser-169 to Val-178.	T0041: 1 and L0766: 1.		
HJABB93	791435	8626	40 - 303	18378	Leu-2 to Asn-11, Glu-24 to Ser-32. Gln-1 to Gly-7, Pro-43 to Gln-61, Cys-68 to Trp-76.	L0748: 2, T0041: 1 and L0756: 1.		
HJAAZ32	699727	8627	92 - 214	18379	Pro-8 to Ala-26.	T0041: 1, L0790: 1, L0748: 1, L0745: 1 and L0759: 1.		
HJAAV85	783412	8628	76 - 183	18380		T0041: 1		
HJAAR02	921105	8629	111 - 269	18381		T0041: 1 and L0784: 1.		
HJAAO07	954263	8630	1 - 186	18382		T0041: 1 and L0385: 1.		
HJAAC22	779388	8631	236 - 409	18383	Met-1 to Pro-7.	T0041: 1 and L0439: 1.		
HJAAA83	928841	8632	241 - 432	18384	Lys-15 to Ser-29, Pro-34 to Pro-53.	L0777: 2, T0041: 1 and L0601: 1.		
HILBQ12	971556	8633	247 - 360	18385		T0002: 1 and L0766: 1.		
HILBC52	906873	8634	3 - 281	18386		L0748: 2 and T0002: 1.		
HILBC17	667204	8635	25 - 285	18387		L0777: 2 and T0002: 1.		
HHEZZ74	934486	8636	542 - 1630	18388	Glu-42 to Ser-70.	L0779: 2, L0800: 1, L0662: 1, L0740: 1, L0596: 1 and H0543: 1.		
HHEZT12	969437	8637	1 - 177	18389	Gln-1 to Lys-8, Val-12 to Cys-17, Met-32 to Phe-38, Pro-40 to Tyr-45.	L0769: 1 and H0543: 1.		
HHEZO92	942859	8638	1 - 546	18390	Val-18 to Trp-24, Ala-64 to Asp-69, Asn-88 to Arg-96, Ser-131 to Gly-137, Gly-150 to Thr-155, Gly-166 to Gly-174.	AR089: 15, AR061: 9 L0639: 1, L0748: 1, L0751: 1 and H0543: 1.		

HHEZN61	973136	8639	429 - 689	18391	Cys-8 to Pro-15, Pro-17 to Leu-23.	H0543: 1		
HHEYE64	973232	8640	329 - 601	18392	Trp-2 to Glu-7.	H0543: 1		
HHEXO05	930794	8641	972 - 1679	18393	Asp-14 to Glu-25, Tyr-109 to Pro-115, Pro-122 to Gly-127, Thr-142 to Lys-147, Leu-149 to Trp-164.	L0743: 2, L0750: 1, L0759: 1 and H0543: 1.		
HHEWX08	974405	8642	271 - 474	18394	Ser-51 to Pro-60.	H0543: 1		
HHEWX06	933879	8643	77 - 172	18395	Thr-18 to Ile-23.	L0785: 1, L0748: 1 and H0543: 1.		
HHEWT49	973142	8644	109 - 333	18396	Ser-23 to Ala-32, Gln-45 to Phe-52.	H0543: 1		
HHEWS01	914746	8645	241 - 414	18397		L0749: 1 and H0543: 1.		
HHEWQ10	963039	8646	2 - 121	18398	Gly-1 to Gly-6.	L0748: 1, L0749: 1 and H0543: 1.		
HHEWM53	973150	8647	170 - 382	18399	Leu-23 to Ser-35, Pro-66 to Ala-71.	H0543: 1		
HHEWG06	933874	8648	176 - 310	18400	Thr-13 to Phe-18, Asp-22 to Gly-29.	L0748: 1 and H0543: 1.		
HHEVZ06	933891	8649	2 - 193	18401	Asn-10 to His-15.	L0748: 1 and H0543: 1.		
HHEU76	906956	8650	544 - 227	18402		L0439: 1 and H0543: 1.		
HHEUP68	973215	8651	308 - 622	18403	Glu-27 to Asp-33, Glu-44 to Leu-51, Thr-59 to Pro-74.	H0543: 1		
HHEUL05	931045	8652	376 - 483	18404	Leu-1 to Ser-6.	L0438: 1 and H0543: 1.		
HHEUD79	774157	8653	3 - 230	18405	Asn-50 to Gly-56.	L0754: 1, L0756: 1 and H0543: 1.		
HHETR81	836730	8654	2 - 718	18406	Gly-1 to Ser-6, Pro-8 to Lys-16, Arg-67 to Cys-84, His-99 to Tyr-107, Met-133 to Cys-138, Pro-164 to Lys-170, Thr-172 to Lys-178.	L0766: 1 and H0543: 1.		
HHETP07	952217	8655	209 - 364	18407	Gly-32 to Phe-39.	L0608: 1 and H0543: 1.		

HHETN89	786361	8656	562 - 687	18408	Glu-11 to Gly-16.	L0747: 1 and H0543: 1.		
HHETN03	923009	8657	306 - 485	18409	Arg-55 to His-60.	L0659: 1 and H0543: 1.		
HHETK38	973120	8658	112 - 369	18410	Arg-1 to Ala-10, Arg-37 to Ser-44, Ser-54 to Asn-61.	H0543: 1		
HHETH36	901275	8659	212 - 424	18411	Gln-1 to Asp-30.	AR050: 13, AR054: 11, AR051: 3 H0543: 1		
HHESV83	780456	8660	3 - 122	18412	Glu-1 to Gly-9.	H0543: 1		
HHESV71	806332	8661	1 - 225	18413		H0543: 1		
HHESS93	791729	8662	281 - 436	18414		L0756: 2, L0742: 1 and H0543: 1.		
HHEQV46	718640	8663	2 - 286	18415	Lys-15 to Leu-27, Pro-29 to Trp-37, Lys-39 to Glu-54, Gly-61 to Ser-91.	L0766: 1, L0749: 1, L0755: 1 and H0543: 1.		
HHEQT07	952452	8664	1523 - 1738	18416	Gly-8 to Lys-18, Gly-22 to Thr-28, Gly-49 to Ser-54, Gln-56 to Phe-63, Glu-65 to Arg-72.	L0763: 1 and H0543: 1.		
HHEQP75	973104	8665	2 - 307	18417	Arg-15 to Arg-21, Leu-54 to Ser-62, Ser-73 to Phe-81, Glu-91 to Lys-102.	H0543: 1		
HHEQL50	723930	8666	215 - 469	18418		L0592: 1 and H0543: 1.		
HHEQK53	727812	8667	524 - 703	18419		L0754: 2 and H0543: 1.		
HHEQH22	723305	8668	215 - 370	18420	Thr-14 to Gly-23, His-29 to Phe-35.	L0764: 1, L0745: 1 and H0543: 1.	17q11	147557, 600881, 601954
HHEQC89	786603	8669	229 - 387	18421	Lys-19 to Tyr-28.	L0766: 1 and H0543: 1.		
HHEQC26	679505	8670	344 - 466	18422	Lys-31 to Val-40.	L0749: 1 and H0543: 1.		
HHEQB59	738866	8671	196 - 324	18423	Lys-1 to Glu-11.	L0439: 1 and H0543: 1.		
HHEQB23	675500	8672	26 - 157	18424		L0773: 1, L0748: 1 and H0543: 1.		
HHEPW95	588266	8673	2 - 181	18425	Ser-52 to Arg-58.	H0543: 1		
HHEPW40	588265	8674	152 - 298	18426		H0543: 1		

HHPEW11	966789	8675	161 - 322	18427		H0543: 1		
HHEPT05	912266	8676	2104 - 2349	18428	Lys-25 to Gln-34.	L0439: 1 and H0543: 1.		
	971711	9721	350 - 174	19473				
	971712	9722	307 - 414	19474				
	971713	9723	425 - 180	19475	Lys-25 to Gln-34.			
	971714	9724	288 - 61	19476	Phe-23 to Gln-48, Lys-56 to Gly-61.			
HHEPT03	923410	8677	41 - 355	18429	Ser-7 to Ser-14.	H0543: 1		
HHEPN71	588241	8678	1 - 249	18430	Leu-53 to Trp-64.	L0752: 1 and H0543: 1.		
HHEPM69	588235	8679	279 - 386	18431		H0543: 1		
HHEPG62	877268	8680	179 - 361	18432	Glu-38 to Asn-44.	L0439: 2, L0777: 2, L0394: 1, L0438: 1, L0744: 1, L0754: 1, L0779: 1, L0753: 1, L0759: 1 and H0543: 1.		
HHEPG59	925436	8681	274 - 474	18433	Phe-7 to Asn-14.	L0748: 1, L0747: 1 and H0543: 1.		
HHEPF21	956241	8682	217 - 357	18434		L0803: 1 and H0543: 1.		
HHEOG81	588155	8683	210 - 365	18435	Glu-19 to Asp-27.	L0755: 1 and H0543: 1.		
HHEOA63	744995	8684	11 - 313	18436		L0748: 3 and H0543: 1.		
HHENY02	919775	8685	206 - 373	18437	Ile-7 to Cys-13.	L0386: 1 and H0543: 1.		
HHENW11	887661	8686	1 - 228	18438	Glu-26 to Lys-38, Ser-55 to Gln-63.	AR050: 71, AR054: 58, AR051: 53 H0543: 1.		
HHENQ08	959262	8687	68 - 259	18439	Thr-44 to Pro-55.	L0748: 2 and H0543: 1.		
HHENK21	858290	8688	2 - 310	18440	Pro-44 to Ser-51.	L0763: 1 and H0543: 1.		
HHENJ29	690576	8689	1 - 306	18441	Asp-4 to Gln-13, Val-22 to Gly-31, Glu-50 to Asp-63, Arg-70 to Asp-75, Ser-88 to Gly-94.	L0750: 1 and H0543: 1.		
HHEND53	728111	8690	196 - 486	18442	His-54 to Ala-59, Ser-64 to Asn-70.	L0439: 1 and H0543: 1.		
HHENC71	757844	8691	142 - 387	18443	Leu-70 to Ser-82.	L0747: 1 and H0543: 1.		
HHENZ66	586737	8692	2 - 364	18444	Pro-14 to Ala-29, Glu-50 to Thr-55.	AR050: 326, AR054: 257, AR051: 188 H0543: 1		

HHEMW78	773507	8693	738 - 541	18445	Gln-42 to Met-64.	L0766: 1 and H0543: 1.	
HHEMV01	916281	8694	3 - 161	18446		L0748: 2 and H0543: 1.	
HHEMQ68	752326	8695	22 - 123	18447		H0543: 1	
HHEMQ48	493733	8696	287 - 111	18448		AR050: 99, AR054: 97, AR051: 82 H0543: 1	
	839526	9725	1 - 162	19477	Pro-22 to Glu-33.		
	887668	9726	1 - 216	19478	Thr-33 to Gly-40, Pro-59 to Leu-64, Thr-66 to Lys-72.		
HHEMN37	708468	8697	2 - 217	18449	Trp-1 to Ser-11.	H0543: 1	
HHEMK77	772115	8698	3 - 104	18450	Thr-6 to Asn-11, Thr-24 to Lys-34.	H0543: 1	
HHEMK26	681595	8699	120 - 470	18451	Pro-38 to Pro-44, Gln-65 to Ala-73.	H0543: 1	
HHEMJ91	789443	8700	233 - 445	18452	Lys-25 to Lys-34.	L0747: 4, L0439: 1, L0362: 1 and H0543: 1.	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601690, 601868, 602280, 602475
HHEMI69	755006	8701	371 - 174	18453	Pro-2 to Lys-12.	H0543: 1	
HHEMI56	469030	8702	257 - 66	18454	Gln-1 to Lys-13, Asp-54 to Asn-62.	H0543: 1	
HHEMI09	625459	8703	1 - 174	18455	Ser-27 to Gly-34, Ser-49 to Glu-54.	H0543: 1	
HHEMG02	917366	8704	325 - 122	18456		L0769: 1 and H0543: 1.	
HHEMG01	916297	8705	121 - 270	18457	Gln-23 to Val-33,	H0543: 1	

HHEMD56	733353	8706	2 - 292	18458	Gly-44 to His-50. Leu-12 to Ser-17.	L0766: 1, L0748: 1 and H0543: 1.		
HHEMC41	927255	8707	269 - 42	18459	Val-14 to Gln-19.	L0747: 2, L0753: 2, L0731: 2, L0750: 1 and H0543: 1.		
HHEMC10	969380	8708	309 - 596	18460	Asn-1 to Glu-7, Ile-70 to Trp-82.	AR050: 98, AR054: 85, AR051: 82, AR089: 28, AR061: 3 H0543: 1		
HHEMA35	467295	8709	390 - 623	18461	Thr-1 to Lys-9, Gln-60 to Pro-65.	L0748: 1 and H0543: 1.		
HHEMA07	953200	8710	190 - 369	18462		L0439: 2, L0804: 1, L0777: 1, L0731: 1 and H0543: 1.		
HHELA35	878217	8711	25 - 462	18463	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1		
HHEKZ12	878267	8712	9 - 395	18464	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1		
HHEKI70	955092	8713	39 - 215	18465	Phe-1 to Ser-8, Glu-45 to Met-53.	L0754: 1, L0747: 1 and H0542: 1.		
HHEJR35	878223	8714	1 - 249	18466		L0745: 2 and H0542: 1.		
HHEHK04	925717	8715	1 - 621	18467	Ser-16 to Gln-22.	L0777: 5 and H0542: 1.		
HHEHG38	943785	8716	2 - 583	18468	Cys-12 to Gly-19, Gly-28 to Leu-35, Lys-37 to His-42.	AR061: 5, AR089: 4 L0779: 1, L0777: 1 and H0542: 1.		
HHEGC05	930878	8717	124 - 258	18469	Gln-10 to Arg-17, Pro-34 to Tyr-45.	L0752: 1 and H0542: 1.		
HHEFN76	767770	8718	1 - 267	18470		L0748: 2 and H0542: 1.		
HHEFM41	711954	8719	580 - 738	18471	Lys-1 to Lys-8, Arg-22 to Leu-27.	L0586: 1 and H0542: 1.		
HHEEY63	744592	8720	400 - 537	18472	Arg-1 to Arg-20, Tyr-31 to His-36.	L0759: 1 and H0542: 1.		
HHEDN70	757106	8721	1 - 390	18473	Thr-63 to Phe-68, Asp-78 to Pro-85.	L0593: 1 and H0542: 1.		
HHEDN51	734118	8722	205 - 354	18474	Gly-15 to Leu-21.	H0542: 1		
HHEDN49	588136	8723	274 - 396	18475		L0369: 1 and H0542: 1.		
HHEDI54	588129	8724	76 - 276	18476		L0749: 1 and H0542: 1.		

HHEDB30	692086	8725	100 - 429	18477	Arg-1 to Gly-9, Gly-12 to Asn-21, Gly-32 to Pro-38.	L0750: 1 and H0542: 1.		
HHECT42	588098	8726	186 - 386	18478	Glu-13 to Glu-18, Pro-36 to Glu-59.	L0594: 2 and H0542: 1.		
HHECM62	934414	8727	148 - 330	18479		L0779: 2, L0596: 1 and H0542: 1.		
HHECA10	973228	8728	66 - 257	18480	Arg-35 to Gly-41.	H0542: 1		
HHEBQ68	752956	8729	3 - 200	18481	Ala-1 to Ala-6, Cys-34 to Gly-42, Cys-56 to Pro-61.	H0542: 1		
HHEBQ59	739216	8730	343 - 140	18482		H0542: 1		
HHEBO04	615127	8731	277 - 447	18483	Gln-28 to Leu-33.	H0542: 1		
HHEBM89	786088	8732	44 - 253	18484	Gln-44 to Leu-50, Tyr-52 to Lys-59.	H0542: 1	15q25	231680, 276700
HHEBM53	728087	8733	115 - 294	18485		H0542: 1		
HHEBJ08	858429	8734	163 - 435	18486		L0766: 2 and H0542: 1.		
HHEBB80	775424	8735	209 - 36	18487	Pro-15 to Arg-27, Pro-38 to Lys-51.	H0542: 1		
HHEBB22	858418	8736	85 - 300	18488	His-3 to Arg-9, Pro-15 to Glu-26, Ser-48 to Gly-61.	H0542: 1		
HHEBA86	785413	8737	1 - 138	18489	Pro-23 to Pro-34.	L0752: 1, L0731: 1, L0605: 1 and H0542: 1.		
HHEAL37	491205	8738	464 - 240	18490		H0542: 1		
	858421	9727	1 - 303	19479				
	858425	9728	100 - 261	19480	Cys-10 to Leu-16.			
	773538	8739	2 - 313	18491	Leu-7 to Cys-14, Glu-22 to Glu-36, Gln-57 to Lys-63, Asp-85 to Leu-97.	L0361: 2 and H0542: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
HHEAF06	935355	8740	169 - 381	18492	Val-3 to Leu-8.	L0518: 4, L0599: 1 and H0542: 1.		
HHEAD08	959305	8741	536 - 736	18493	Ser-12 to Phe-18.	L0794: 4, L0651: 1 and		

HHEAC20	668948	8742	1 - 459	18494	Ser-16 to Gly-25, Asp-33 to Asn-42, Cys-72 to Ser-85, Glu-98 to Glu-106, Glu-114 to Gly-130.	H0542: 1. H0542: 1		
HHEAA02	932265	8743	26 - 631	18495	Asn-1 to Gly-19, Ala-24 to Arg-30, Phe-53 to Arg-69, Gln-104 to Ser-110, Ser-116 to Thr-123.	L0593: 2 and H0542: 1.		
HFSBE12	970629	8744	132 - 317	18496		H0057: 1		
HFSBB12	971571	8745	424 - 218	18497		H0057: 1 and L0779: 1.		
HFSBB06	960835	8746	326 - 180	18498	Pro-14 to Ala-19.	L0766: 2 and H0057: 1.		
HFSAZ51	725973	8747	453 - 316	18499		L0749: 3, L0748: 2 and H0057: 1.		
HFSAX30	693419	8748	379 - 173	18500		H0057: 1 and L0756: 1.		
HFSAW27	684668	8749	132 - 1	18501		L0794: 2, H0057: 1, L0758: 1 and L0581: 1.		
HFSAU89	785904	8750	444 - 238	18502	Thr-1 to Ala-7.	H0057: 1 and L0748: 1.		
HFSAU84	781861	8751	105 - 1	18503	Leu-16 to Cys-22.	H0057: 1 and L0749: 1.		
HFSAT96	504394	8752	239 - 60	18504	His-3 to Asp-15.	H0057: 1 and L0748: 1.		
HFSAT48	720843	8753	465 - 331	18505	Cys-4 to Phe-10, Lys-40 to His-45.	L0666: 2, L0747: 2, L0731: 2, H0057: 1, L0804: 1, L0791: 1, L0779: 1 and L0780: 1.		
HFSAS86	785851	8754	196 - 107	18506	Tyr-5 to Ser-11, Phe-13 to Asp-23.	L0777: 2, H0057: 1 and L0754: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HFSAR68	675246	8755	398 - 207	18507	His-1 to Ser-25, Asp-32 to Lys-44.	H0057: 1		
	826790	9729	140 - 319	19481				
HFSAP25	677463	8756	344 - 249	18508	Leu-4 to Ser-10, Thr-19 to Asn-24.	H0057: 1 and L0748: 1.		
HFSAK31	504424	8757	185 - 60	18509	Gln-18 to Tyr-31.	H0057: 1		

HFSAK14	504431	8758	352 - 251	18510	Pro-5 to Ser-14.	L0748: 2 and H0057: 1.		
	504432	9730	72 - 209	19482	Lys-1 to Leu-9.			
HFSAI68	753858	8759	319 - 209	18511		L0748: 2 and H0057: 1.		
HFSAH34	526472	8760	697 - 524	18512		H0057: 1, L0775: 1, L0439: 1, L0740: 1 and L0747: 1.		
HFSAH03	960973	8761	496 - 320	18513	Glu-33 to Thr-45, Arg-50 to Ser-59.	AR089: 18, AR061: 11 H0057: 1, L0520: 1 and L0389: 1.		
HFSAF53	728528	8762	314 - 96	18514		H0057: 1 and L0588: 1.		
HEOQI52	850966	8763	21 - 323	18515		H0457: 1, L0521: 1, L0766: 1 and L0581: 1.		
HEOPY91	933173	8764	132 - 314	18516	Ala-21 to Ala-34, Ser-38 to Gln-50.	H0457: 1 and L0366: 1.		
HEOOA49	942561	8765	1 - 576	18517	Leu-42 to Asp-50, Pro-94 to Ala-100, Ser-169 to Gly-174.	AR089: 6, AR061: 2 H0457: 1		
HEONX61	741864	8766	2 - 235	18518		H0457: 1 and L0748: 1.		
HEONO64	746660	8767	158 - 427	18519		L0748: 3 and H0457: 1.		
HEONO59	741361	8768	325 - 756	18520		AR089: 5, AR061: 3 H0457: 1 and L0752: 1.		
HEONN02	840210	8769	64 - 225	18521		H0457: 1 and L0740: 1.	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134
HEONL19	575884	8770	170 - 325	18522		H0457: 1		
HEONL09	961147	8771	3 - 155	18523	Glu-30 to Lys-50.	H0457: 1		
HEONL06	935516	8772	244 - 414	18524		H0457: 1		
HEONK37	707505	8773	62 - 313	18525	Ser-1 to Asn-9.	L0754: 2 and H0457: 1.		
HEONK10	964757	8774	90 - 206	18526		H0457: 1 and L0747: 1.		
HEONJ18	575888	8775	30 - 338	18527	Arg-10 to Asp-15, Gly-33 to Gln-40, Ser-42 to Cys-49, Arg-60 to Asn-66.	H0457: 1		

HEONI92	792772	8776				Gln-81 to Ala-87.			
HEOMX03	922962	8777	330 - 602	18528		Asp-1 to Ser-9.	H0457: 1 and L0603: 1.		
HEOMX01	913683	8778	361 - 552	18529		Val-8 to Arg-18, Glu-40 to His-46, Pro-62 to Cys-69, Ser-105 to Ser-115, Pro-124 to Pro-129, Pro-139 to Ser-145, Ser-163 to Ser-169.	H0457: 1		
HEOMV61	506231	8779	2 - 559	18530					
HEOMQ68	753075	8780			3 - 326	Pro-51 to Ser-65.	H0457: 1		
HEOMQ04	931032	8781	96 - 218	18532		Lys-1 to Phe-11.	H0457: 1 and L0599: 1.		
HEOML91	667931	8782	2 - 172	18533			L0756: 2 and H0457: 1.		
HEOML76	575927	8783	63 - 290	18534			H0457: 1		
HEOMH63	745146	8784	93 - 224	18535		His-7 to Gln-12, Pro-14 to Lys-21.	H0457: 1		
HEICC56	733383	8785	80 - 256	18536			H0457: 1 and L0745: 1.		
HEIBB84	781994	8786	2 - 100	18537		Pro-1 to Gly-9, Arg-23 to Gln-33.	S0140: 1		
HEIBB31	697987	8787	2 - 406	18538			L0745: 2 and S0140: 1.		
HEIBA15	888667	8788	2 - 142	18539		Leu-29 to Ser-35.	S0140: 1 and L0777: 1.		
HEIAX24	677177	8789	197 - 427	18540			AR050: 12, AR051: 10, AR054: 10 S0140: 1		
HEIAX11	967272	8790	181 - 360	18541		Leu-7 to Gly-12, Glu-23 to Cys-29.	S0140: 1		
HEIAU39	861503	8791	2 - 289	18542		Thr-47 to Asn-55.	S0140: 1 and L0640: 1.		
HEIAR07	953626	8792	1 - 366	18543		Lys-1 to Ser-7, Phe-31 to Arg-43.	L0534: 1, S0140: 1, L0794: 1, L0790: 1 and L0791: 1.		
			186 - 410	18544		Ser-1 to Arg-14, Asp-27 to Gly-32, Gly-42 to Ala-48, Leu-65 to Ala-72.	S0140: 1 and L0592: 1.		
HEIAJ39	705643	8793	61 - 402	18545			S0140: 1 and L0766: 1.		
HEIAI86	785680	8794	34 - 135	18546		Ser-1 to Gly-19.	L0361: 2 and S0140: 1.		
HEIAD76	574163	8795	2 - 169	18547		Leu-11 to Gln-21.	S0140: 1		

HEIAC62	745672	8796	30 - 176	18548	Gln-38 to Gly-45.	S0140: 1		
HDTMJ27	851806	8797	316 - 495	18549		H0486: 1 and L0589: 1.		
HDTLI05	928253	8798	1 - 285	18550	Thr-1 to Met-6, Thr-8 to Asp-15, Thr-22 to Gln-27, His-36 to Val-44, Leu-55 to Asp-75, Ser-80 to Asp-95.	L0766: 3, L0754: 2, L0758: 2, H0486: 1 and L0748: 1.		
HDTLE28	851830	8799	2 - 172	18551	Phe-27 to Lys-34.	H0486: 1 and L0631: 1.		
HDTLB90	969209	8800	293 - 733	18552	Glu-24 to Ser-35.	L0753: 2, H0486: 1, L0774: 1 and L0749: 1.		
HDTKX61	806340	8801	105 - 521	18553	Pro-32 to Ser-46, Asn-58 to Pro-76.	H0486: 1 and L0747: 1.		
HDTJP10	963456	8802	293 - 469	18554	Lys-19 to Arg-25, Phe-27 to Phe-33, Pro-38 to Lys-44, Ser-49 to Asp-56.	H0486: 1, L0648: 1 and L0755: 1.		
HDTJF29	887186	8803	3 - 299	18555	Pro-15 to Gln-30, Pro-45 to Ala-50, Val-62 to Trp-67, Gln-79 to His-99.	AR054: 25, AR050: 21, AR051: 11 H0486: 1, L0779: 1 and L0777: 1.		
HDTJF05	931977	8804	10 - 486	18556	Pro-6 to Pro-18, Ala-35 to His-42, Gly-51 to Ser-58.	L0717: 1 and H0486: 1.		
HDTIO74	933606	8805	3 - 239	18557	Ile-37 to Arg-42.	AR061: 3, AR089: 1 H0486: 1 and L0748: 1.		
HDTIO16	934151	8806	2 - 673	18558	Val-14 to Arg-20, Arg-28 to Gln-33, Arg-106 to Trp-111.	AR089: 31, AR061: 2 H0486: 1		
HDTIG62	851951	8807	3 - 263	18559	Cys-65 to Gly-70.	L0766: 3, H0486: 1, L0749: 1 and L0779: 1.		
HDTIA48	851944	8808	2 - 271	18560	Pro-1 to Asp-20, Glu-25 to Pro-32, Asp-64 to Lys-72, Glu-85 to Leu-90.	H0486: 1 and L0779: 1.		
HDTTU79	774217	8809	83 - 385	18561	Thr-17 to Arg-41,	L0757: 2 and H0486: 1.		

HDTHS05	926048	8810	462 - 896	18562	Arg-49 to Cys-57. Phe-42 to Gly-57, Ala-60 to Ser-73, Pro-91 to Gly-101, Lys-108 to Gln-116.	H0486: 1 and L0777: 1.		
HDTHP45	841796	8811	23 - 160	18563	Glu-8 to Ser-16.	H0486: 1		
HDTHI02	918728	8812	120 - 266	18564	Ser-29 to Lys-35.	L0759: 3 and H0486: 1.		
HDTHG69	754464	8813	70 - 234	18565		H0486: 1 and L0748: 1.		
HDTHE32	851964	8814	230 - 490	18566		L0790: 2, L0749: 2, H0486: 1 and L0363: 1.		
HDTHA77	771334	8815	458 - 312	18567		L0748: 2, H0486: 1, L0743: 1 and L0731: 1.		
HDGTG62	742828	8816	22 - 180	18568		L0748: 2 and H0486: 1.		
HDGTG31	697539	8817	3 - 380	18569		H0486: 1 and L0747: 1.		
HDTGH10	963966	8818	140 - 3	18570	Leu-10 to Gln-20.	L0779: 2 and H0486: 1.		
HDGTC27	682687	8819	313 - 429	18571		H0486: 1 and L0748: 1.		
HDTFX46	915075	8820	265 - 501	18572		H0486: 1 and L0748: 1.		
HDFT42	713399	8821	259 - 474	18573		H0486: 1 and L0766: 1.		
HDFT93	792077	8822	38 - 298	18574	Glu-39 to Lys-49.	H0486: 1 and L0439: 1.		
HDFTN38	706752	8823	205 - 408	18575	Ser-10 to Tyr-17.	H0486: 1, L0471: 1, L0745: 1 and L0756: 1.		
HDTFI27	682705	8824	92 - 382	18576		L0803: 6, L0805: 2, L0439: 2, H0486: 1, L0809: 1, L0779: 1 and L0777: 1.	181430, 217300, 600698, 600698, 600698, 600698, 600808, 602116	
HDTFG15	913812	8825	40 - 333	18577	Ile-8 to Phe-15, Glu-27 to Met-32, Asp-63 to Trp-72.	L0361: 2, H0486: 1, L0766: 1 and L0439: 1.		
HDDET62	587822	8826	111 - 332	18578		H0486: 1, L0745: 1 and L0746: 1.		
HDTEJ57	872215	8827	1 - 429	18579	Gly-1 to His-9, Ala-33 to Pro-39.	L0741: 2 and H0486: 1.		
HDTDS89	799881	8828	120 - 233	18580		H0486: 1		
HDTDS44	799863	8829	138 - 266	18581	Lys-8 to Pro-13.	H0486: 1		
HDTDP20	883680	8830	1 - 384	18582	Leu-60 to His-67.	L0483: 2 and H0486: 1.	7q32	180105, 190900, 222800, 246900

HDTDP02	919572	8831	1 - 255	18583	Pro-10 to Ser-20.		H0486: 1 and L0756: 1.		
HDTDL15	851999	8832	15 - 245	18584	Thr-61 to Asn-69.		L0546: 4, H0486: 1 and L0779: 1.		
HDTDI44	587742	8833	179 - 439	18585			L0746: 2, L0753: 2, H0486: 1, L0606: 1 and L0745: 1.		
HDTDG89	799870	8834	221 - 382	18586	Gln-27 to Val-34.		H0486: 1		
HDTDD88	615173	8835	113 - 439	18587	Arg-23 to Arg-29, Arg-40 to Pro-54.		H0486: 1		
HDTDD72	587710	8836	162 - 371	18588			AR089: 159, AR061: 142	17p13.3	113721, 247200,
							H0486: 1		600059, 601545
HDTDD70	757088	8837	327 - 446	18589	Asn-21 to Arg-37.		H0486: 1		
HDTDD67	754739	8838	3 - 335	18590	Glu-1 to His-9, Ala-11 to Thr-19.		H0486: 1		
HDTDD15	668754	8839	9 - 188	18591			H0486: 1	15q22	102578, 109700, 151670, 154550, 601780
HDTDC74	799868	8840	138 - 305	18592	Leu-2 to Lys-8, Ala-19 to Gly-35, Pro-37 to Asn-45, Lys-50 to Gln-56.		H0486: 1		
HDTDC64	799871	8841	219 - 389	18593			H0486: 1		
HDTDC38	706741	8842	335 - 523	18594	Ala-26 to Ser-36.		L0748: 2 and H0486: 1.	6q26-q27	100678, 147280, 152200, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544
HDTDC30	692063	8843	15 - 290	18595			H0486: 1		
HDTDB37	587699	8844	105 - 404	18596	Glu-1 to Ser-10, Ser-24 to Ala-29.		H0486: 1, L0471: 1, L0745: 1 and L0777: 1.		
HDTDB21	587700	8845	258 - 61	18597	Ile-15 to Asn-24, Lys-61 to Lys-66.		L0747: 2, H0486: 1 and L0766: 1.		
HDTCC55	934923	8846	195 - 911	18598	Ser-26 to Ser-32.		H0486: 1 and L0766: 1.		
HDTCC01	916455	8847	371 - 562	18599			H0486: 1, L0506: 1, L0508: 1, L0493: 1 and L0758: 1.		
HDTBZ83	842950	8848	2 - 454	18600	Arg-1 to Gly-15.		H0486: 1		

HDTBV06	935393	8849	37 - 198	18601			H0486: 1 and L0809: 1.		
HDTBU73	764410	8850	538 - 720	18602		Gly-24 to Ile-30.	H0486: 1, L0748: 1 and L0747: 1.		
HDTBT35	706730	8851	1 - 306	18603			L0521: 2, H0486: 1, L0740: 1, L0756: 1 and L0779: 1.		
HDTBS91	789425	8852	2 - 520	18604		Glu-1 to Leu-18.	H0486: 1 and L0439: 1.		
HDTBS45	591589	8853	289 - 2	18605			L0749: 2, H0486: 1, L0637: 1 and L0748: 1.		
HDTBR39	705350	8854	452 - 742	18606			H0486: 1 and L0758: 1.		
HDTBP84	783024	8855	78 - 275	18607		Leu-1 to Ala-6.	H0486: 1 and L0750: 1.		
HDTBM53	727526	8856	25 - 150	18608			H0486: 1		
HDTBM31	697918	8857	136 - 372	18609		Glu-18 to Cys-23, Asp-74 to Ser-79.	L0750: 2 and H0486: 1.		
HDTBK62	742603	8858	45 - 221	18610		His-26 to Cys-41, Lys-54 to Lys-59.	H0486: 1		
HDTBG80	916167	8859	173 - 478	18611		Lys-34 to Arg-41.	H0486: 1 and L0362: 1.		
HDTBD67	899636	8860	252 - 1175	18612		Pro-20 to Pro-29, Phe-42 to Val-52, Leu-106 to Pro-113, Arg-134 to Gly-139, Ala-207 to Asn-213, Thr-227 to Phe-239.	AR054: 32, AR051: 10, AR089: 3, AR061: 2, AR050: 2, H0486: 1		
	902517	9731	2 - 838	19483		Phe-13 to Val-23, Leu-77 to Pro-84, Arg-105 to Gly-110, Ala-178 to Asn-184, Thr-198 to Phe-210.			
HDTAU14	658429	8861	66 - 176	18613			H0486: 1 and L0745: 1.		
HDTAT80	911928	8862	105 - 281	18614		Gly-44 to Thr-50.	H0486: 1		
HDTAP53	728216	8863	234 - 329	18615			H0486: 1 and L0748: 1.		
HDTAH15	840327	8864	180 - 476	18616			H0486: 1, L0747: 1 and L0731: 1.		
HDTAE60	810259	8865	36 - 167	18617		Val-32 to Gln-37.	H0486: 1 and L0748: 1.		
HDTAE44	799902	8866	260 - 397	18618			H0486: 1 and L0438: 1.		
HDTAE29	780991	8867	99 - 332	18619			H0486: 1		
HDTAE16	661997	8868	206 - 439	18620		Ala-12 to Ser-17.	H0486: 1		

HDTAE09	799874	8869	153 - 305	18621	Ser-24 to Ser-30, Pro-73 to His-78.	H0486: 1	Xq13.1-q13.3	304040, 305100, 305450, 309605, 312760, 314250, 314580
HDTAB89	786039	8870	113 - 310	18622		H0486: 1 and L0748: 1.		
HDtaa31	937609	8871	1100 - 1432	18623	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	AR089: 14, AR061: 4 H0486: 1 and L0779: 1.		
	941948	9732	1100 - 1432	19484	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.			
HDRAC08	963325	8872	224 - 33	18624	Ser-6 to Ser-11, Thr-55 to Pro-60.	H0537: 1 and L0439: 1.		
HDQPR06	936658	8873	2 - 202	18625	Ser-8 to Glu-20, Glu-26 to Gln-36.	H0522: 1, L0751: 1, L0777: 1 and L0594: 1.		
HDQPP57	926953	8874	64 - 180	18626	Lys-34 to Ser-39.	H0522: 1 and L0748: 1.		
HDQIH08	958252	8875	338 - 469	18627	Arg-8 to Ile-13.	H0521: 1 and L0749: 1.		
HDQHU84	782202	8876	1 - 171	18628		L0748: 3 and H0521: 1.		
HDQHO94	793387	8877	1 - 126	18629	Pro-15 to Gly-25, Gly-29 to Trp-41.	L0766: 1 and H0521: 1.		
HDQHJ04	926978	8878	3 - 614	18630	Ser-8 to Ser-21, Thr-46 to Asp-55, Lys-91 to Gly-97, Glu-103 to Asp-115, Gln-125 to Ala-135, Pro-137 to Ser-143, Lys-154 to Phe-163.	L0370: 1 and H0521: 1.		
HDQGW10	963512	8879	46 - 267	18631	Ser-1 to Trp-9, Gln-35 to Lys-40.	L0367: 1, H0521: 1 and L0439: 1.		
HDQGF78	772952	8880	352 - 480	18632	Gln-30 to Pro-35.	H0521: 1 and L0748: 1.		
HDQFT10	852587	8881	121 - 324	18633	Ser-63 to Lys-68.	L0375: 1 and H0521: 1.		
HDQFJ39	852593	8882	197 - 469	18634	Gly-74 to Thr-80.	L0766: 1 and H0521: 1.		

HDQFE93	791724	8883	870 - 1046	18635			L0439: 4, H0521: 1 and L0740: 1.		
HDQEX85	875473	8884	2 - 409	18636			H0521: 1, L0748: 1 and L0749: 1.		
HDQEW83	780551	8885	2 - 283	18637			L0731: 2 and H0521: 1.		
HDQEW11	966126	8886	190 - 2	18638		Ser-5 to Thr-11, Cys-21 to Gly-26, Arg-51 to Gly-63.	L0519: 1 and H0521: 1.		
HDQET29	852618	8887	77 - 274	18639		Gly-11 to Lys-22.	H0521: 1 and L0748: 1.		
HDQEQ10	963533	8888	380 - 550	18640		Pro-41 to Thr-48.	L0766: 2, L0545: 1 and H0521: 1.		
HDQEI46	957666	8889	424 - 266	18641			H0521: 1 and L0748: 1.		
HDQEF93	791753	8890	121 - 369	18642		Gly-21 to Val-28.	L0743: 3 and H0521: 1.		
HDQDX89	786323	8891	2 - 709	18643		Gly-16 to Glu-27, Asn-40 to Ser-54, Ser-71 to His-79, Ile-102 to Leu-107, Glu-114 to Gln-120, Gly-127 to Gly-137, Pro-160 to Lys-177, Gln-187 to Thr-199.	L0740: 2 and H0521: 1.		
HDQDT10	963482	8892	432 - 283	18644		Pro-4 to Asp-9.	H0521: 1, L0749: 1 and L0779: 1.		
HDQDG73	761957	8893	209 - 418	18645		Thr-10 to Asn-15, Pro-31 to Pro-42, Pro-47 to Thr-52.	H0521: 1 and L0750: 1.		
HDQDC74	764985	8894	136 - 270	18646		Tyr-21 to Ala-28.	H0521: 1 and L0588: 1.		
HDPYO08	958454	8895	139 - 357	18647			L0384: 1, H0521: 1 and L0779: 1.		
HDPXZ28	686188	8896	462 - 665	18648			L0794: 2, L0770: 1, L0638: 1, L0773: 1, L0804: 1, L0805: 1, H0521: 1, L0745: 1, L0755: 1 and L0731: 1.		
HDPXW88	631353	8897	357 - 187	18649		Cys-3 to His-8, Pro-11 to Gln-21.	L0766: 1 and H0521: 1.		
HDPXO03	923602	8898	375 - 521	18650		Lys-1 to Asn-9.	H0521: 1 and L0748: 1.		

HDPXN01	915919	8899	69 - 230	18651	Ser-48 to Ser-53.	AR089: 9, AR061: 4 L0794: 5, L0439: 2, L0747: 2, H0521: 1, L0779: 1, L0777: 1 and L0594: 1.		
HDPXL71	760140	8900	27 - 275	18652	Ala-21 to Asp-30.	H0521: 1 and L0745: 1.		
HDPXD40	974493	8901	129 - 320	18653	Glu-5 to Cys-16.	H0521: 1		
HDPXD08	958826	8902	124 - 336	18654	Val-2 to Glu-10, Gln-62 to Arg-71.	L0766: 1 and H0521: 1.		
HDPXC56	974490	8903	76 - 564	18655	Gln-2 to Leu-8, Thr-30 to Pro-41.	H0521: 1		
HDPXB75	786320	8904	2 - 382	18656	Glu-61 to Gly-66, Thr-75 to Gln-82.	H0521: 1		
HDPWX53	727595	8905	2 - 301	18657		H0521: 1, L0748: 1 and L0756: 1.		
HDPWT92	791223	8906	331 - 567	18658	Gly-1 to Ser-6, Ser-21 to Ser-37.	H0521: 1 and L0748: 1.		
HDPWR03	923608	8907	261 - 28	18659	Met-20 to Arg-30, Pro-54 to Glu-65.	H0521: 1 and L0752: 1.		
HDPWN56	733129	8908	3 - 425	18660	Arg-24 to Asp-33, Pro-45 to Glu-55, Glu-81 to Gln-102, Leu-111 to Met-120.	H0521: 1 and L0743: 1.		
HDPWK75	793234	8909	36 - 299	18661	Pro-1 to Pro-10.	H0521: 1 and L0754: 1.	20q13.1	256540, 600281, 600281
HDPWH75	956201	8910	34 - 309	18662	Pro-32 to Pro-43.	L0748: 2 and H0521: 1.		
HDPVC01	915816	8911	323 - 595	18663		H0521: 1 and L0759: 1.		
HDPWU82	921279	8912	216 - 91	18664	Gln-22 to Asp-29, Pro-37 to Thr-42.	H0521: 1 and L0439: 1.		
HDPUV65	747646	8913	248 - 538	18665	Lys-10 to Pro-19, Ile-28 to Ala-33.	H0521: 1 and L0439: 1.		
HDPUV11	966558	8914	436 - 618	18666		L0439: 3, L0748: 2 and H0521: 1.		
HDPUR51	914406	8915	233 - 3	18667	Gly-12 to Asn-17, Ala-67 to Lys-77.	L0599: 2, L0766: 1, L0775: 1, L0776: 1, H0521: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, L0480: 1 and		

HDPUN39	957580	8916	1819 - 1067	18668	Leu-18 to Ser-24, Pro-46 to Glu-51, Ala-81 to Glu-89.	L0596: 1. AR089: 2, AR061: 1 L0755: 2, L0662: 1 and H0521: 1.		
HDPUI44	715971	8917	53 - 250	18669		L0748: 2, L0749: 2, L0664: 1 and H0521: 1.		
HDPTO65	747206	8918	37 - 294	18670	Thr-72 to Lys-81.	H0521: 1 and L0608: 1.		
HDPTL59	739068	8919	14 - 388	18671	Arg-8 to Gly-17.	H0521: 1 and L0581: 1.		
HDPTL43	715038	8920	192 - 419	18672	Lys-22 to Ser-31.	H0521: 1 and L0599: 1.	3q25-q29	106165, 165500, 222900, 276902
HDPTD58	735750	8921	298 - 462	18673		H0521: 1 and L0748: 1.		
HDPSW93	973098	8922	103 - 330	18674	Trp-2 to Ser-9.	H0521: 1		
HDPSW82	779614	8923	25 - 417	18675	Gln-7 to Gln-15, Arg-61 to Cys-75, Ser-82 to His-92.	L0749: 2 and H0521: 1.		
HDPSL71	969286	8924	157 - 294	18676	Thr-18 to Gly-23, Val-27 to Gly-32.	L0648: 1, L0803: 1, L0774: 1, L0659: 1, L0665: 1, H0521: 1 and L0758: 1.	1q22-q24	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491
HDPSK64	746370	8925	1 - 633	18677	Arg-13 to Ser-30, Thr-40 to Asp-52.	H0521: 1 and L0749: 1.		
HDPSK53	727586	8926	1 - 474	18678	Leu-25 to Gln-32, Ile-48 to Glu-53, Glu-69 to Cys-78.	L0601: 2 and H0521: 1.		
HDPSJ13	656729	8927	257 - 394	18679		H0521: 1 and L0748: 1.		
HDPSB10	961309	8928	1 - 444	18680	Met-14 to Pro-24, Lys-31 to Glu-36, His-70 to Gly-76.	AR089: 1, AR061: 0 L0665: 1 and H0521: 1.		
HDPSA86	785293	8929	452 - 219	18681		H0521: 1 and L0439: 1.		
HDPRW01	915993	8930	91 - 294	18682	Gly-1 to Ser-6,	H0521: 1 and L0731: 1.		

HDP RS89	887682	8931	3 - 341	18683	Gln-23 to Ser-38. Asn-54 to Lys-63, Thr-69 to Phe-74, Trp-98 to Ser-108.	AR050: 58, AR054: 55, AR051: 47 H0521: 1		
HDP RR24	914667	8932	111 - 410	18684	Asn-65 to Arg-71.	H0521: 1 and L0745: 1.		
HDP RK07	948672	8933	12 - 158	18685	Arg-1 to Thr-11, Ser-19 to Leu-25.	L0766: 1, H0521: 1 and L0779: 1.		
HDP RJ04	909040	8934	3 - 419	18686	Lys-21 to His-27, Phe-44 to Arg-55, Lys-72 to Lys-80, Glu-88 to Thr-94.	AR089: 0, AR061: 0 H0521: 1 and L0758: 1.		
HDP RE41	712124	8935	378 - 232	18687	His-20 to Thr-25.	H0521: 1 and L0754: 1.		
HDP RA51	725103	8936	2 - 175	18688	Arg-27 to Ser-32.	H0521: 1		
HDP QV82	779421	8937	13 - 327	18689	Gly-5 to Gly-11, Lys-38 to Lys-43.	H0522: 1 and L0748: 1.		
HDP QR07	952337	8938	500 - 604	18690		H0522: 1 and L0779: 1.		
HDP QI68	955006	8939	14 - 508	18691	Glu-42 to Asp-47, Gly-54 to Gly-61, Pro-67 to Asn-73, Lys-145 to Asn-151.	L0752: 2, L0659: 1, H0522: 1 and L0779: 1.		
HDP QH06	934616	8940	66 - 275	18692	Arg-12 to Arg-20, Phe-34 to Lys-45, Pro-65 to Asp-70.	L0794: 1 and H0522: 1.		
HDP QF03	923120	8941	5 - 748	18693		AR054: 9, AR050: 7, AR051: 2 L0769: 1, H0522: 1, L0744: 1 and L0754: 1.		
HDP QC63	744461	8942	18 - 302	18694	Asn-16 to Arg-21, Arg-35 to Ile-41.	H0522: 1 and L0748: 1.		
HDP QA64	872237	8943	3 - 266	18695	Pro-6 to Arg-19, Pro-25 to Cys-30, Pro-33 to Arg-40.	H0522: 1 and L0596: 1.		
HDP PP29	690497	8944	138 - 1	18696	Ser-30 to Gly-45.	H0522: 1 and L0759: 1.		
HDP PB17	662917	8945	1 - 387	18697	Pro-17 to Gly-34, Asp-59 to Val-72, His-77 to Asp-87.	H0522: 1 and L0740: 1.		

					Ser-107 to Thr-121.			H0522: 1 and L0749: 1.		
HDPOX03	923856	8946	320 - 132	18698	Asn-9 to Asn-15.			L0753: 2, H0522: 1, L0740: 1 and L0750: 1.		
HDPOI78	773487	8947	223 - 456	18699	Ser-1 to Tyr-7, Tyr-19 to Val-25, Leu-30 to Thr-35, Ile-47 to Asn-56, Ile-68 to His-75.					
HDPOPO3	923843	8948	185 - 439	18700	Thr-10 to Tyr-15, Gly-66 to Ile-81.			H0522: 1 and L0756: 1.		
HDPOC02	919597	8949	344 - 631	18701	Arg-16 to Gly-22.			L0439: 2, H0522: 1, L0779: 1 and L0731: 1.		
HDPMJ73	764407	8950	1 - 228	18702	Val-1 to Ser-12, Ser-18 to Arg-23.			H0522: 1 and L0603: 1.		
HDPND09	607575	8951	323 - 165	18703	Arg-20 to Asp-25, Gly-37 to Val-47.			H0522: 1		
	874076	9733	308 - 18	19485	Pro-8 to Arg-13, Thr-39 to Gln-48.					
	897723	9734	425 - 291	19486	Glu-22 to Cys-28, Leu-40 to Lys-45.					
HDPNC22	674539	8952	407 - 715	18704	Glu-1 to Glu-6, Asp-11 to Gln-18, Pro-20 to Tyr-25, Pro-27 to Lys-38.			L0748: 6, L0749: 2, H0522: 1 and L0752: 1.		
	706647	8953	191 - 349	18705				H0522: 1 and L0752: 1.		
	493958	8954	422 - 189	18706	Ala-1 to Pro-11, Lys-18 to Leu-31, Met-59 to Arg-64.			H0522: 1		
HDPMV35	584265	9735	1 - 282	19487	Thr-2 to Glu-9, Ser-11 to Lys-16, Ile-65 to Arg-77.					
	725029	8955	3 - 224	18707	Asn-14 to Tyr-22, Lys-44 to Ser-50.			L0746: 3, H0522: 1 and L0748: 1.		
	934144	8956	274 - 2	18708				H0522: 1 and L0780: 1.		
HDPLV29	849526	8957	224 - 439	18709	Glu-35 to Tyr-46.			L0766: 2 and H0521: 1.		
HDPLU84	782061	8958	163 - 318	18710	Lys-9 to Gln-14, Thr-40 to Cys-49.			H0521: 1 and L0748: 1.		

HDPLT62	973945	8959	405 - 809	18711			AR089: 1, AR061: 0 H0521: 1		
HDPKI78	773469	8960	19 - 126	18712			H0521: 1 and L0749: 1.		
HDPKA03	923841	8961	267 - 407	18713			L0740: 4, L0777: 2, L0803: 1 and H0521: 1.		
HDPJX07	952966	8962	350 - 574	18714		Gly-2 to Gln-12, Asp-68 to Asp-73.	L0769: 1, L0803: 1, H0521: 1 and L0758: 1.		
HDPJP44	716466	8963	91 - 360	18715		Asp-43 to Cys-50.	L0803: 7, L0794: 5, L0804: 5, L0775: 3, L0789: 2, L0805: 1, L0776: 1, L0809: 1, H0521: 1, L0747: 1, L0779: 1 and L0758: 1.		
HDPJK23	488326	8964	2 - 355	18716		Lys-74 to Arg-80.	H0521: 1 and L0757: 1.		
HDPJB19	887886	8965	3 - 293	18717		Gln-12 to Lys-19.	AR050: 112, AR051: 76, AR054: 75 H0521: 1		
HDPJA07	953001	8966	46 - 243	18718		Ser-2 to Ser-10.	H0521: 1 and L0745: 1.		
HDPJW95	933240	8967	181 - 774	18719		Gln-66 to Asn-71, Ala-130 to Gln-135, Leu-137 to Asn-144, Thr-154 to Ser-163.	L0779: 2, H0521: 1, L0745: 1 and L0758: 1.		
HDPIV34	703959	8968	328 - 489	18720		Thr-9 to Asn-19.	H0521: 1 and L0754: 1.		
HDPIQ24	771939	8969	141 - 485	18721		Arg-17 to Gly-23, Ala-37 to Ser-46, His-78 to Leu-85, Ser-103 to Lys-110.	H0521: 1 and L0595: 1.		
HDPJP06	935198	8970	444 - 569	18722			H0521: 1 and L0748: 1.		
HDPIL73	764344	8971	34 - 213	18723		Phe-1 to Thr-7, Gly-46 to Leu-59.	H0521: 1		
HDPIL01	916221	8972	206 - 343	18724		Gly-19 to His-27.	H0521: 1		
HDPJF78	881960	8973	130 - 360	18725			H0521: 1		
HDPIF66	750575	8974	51 - 443	18726		Cys-48 to Gln-60, Gln-78 to Gln-86.	H0521: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238,

										601846, 602216, 602477
HDPF54	729441	8975	239 - 469	18727		Pro-7 to Thr-12, Thr-17 to Thr-26.			H0521: 1 and L0439: 1.	
HDPID88	415993	8976	2 - 241	18728		Ser-1 to Leu-17, Gln-22 to Gly-29, Cys-32 to Trp-39, Ser-45 to Ser-64.			H0521: 1	
HDPID53	728058	8977	222 - 401	18729		Ala-19 to Glu-26.			H0521: 1	
HDPID21	827350	8978	1 - 192	18730					H0521: 1	
HDPHF37	706622	8979	54 - 209	18731					H0521: 1	
HDPHA89	786078	8980	111 - 437	18732		Glu-12 to Gln-17, Lys-25 to His-35.			L0745: 2, H0521: 1, L0741: 1 and L0746: 1.	
HDPHA40	711126	8981	1 - 162	18733		Pro-4 to Arg-12, Leu-30 to Thr-36.			H0521: 1 and L0749: 1.	
HDPHA37	812336	8982	2 - 508	18734		Gln-14 to Gly-20, Pro-35 to Gly-42, Leu-55 to Pro-62, Gln-92 to Asp-104, Ser-130 to Lys-136, Lys-145 to Ala-153, His-155 to Thr-161.			H0521: 1	
HDPHA34	704036	8983	264 - 512	18735					H0521: 1 and L0748: 1.	
HDPGX15	660089	8984	43 - 315	18736					H0521: 1	
HDPGX10	964519	8985	419 - 550	18737					L0766: 1 and H0521: 1.	
HDPGX03	924010	8986	242 - 388	18738					H0521: 1	
HDPGT96	973363	8987	1 - 237	18739		His-20 to Asp-26.			H0521: 1	
HDPGS93	792256	8988	239 - 466	18740		Phe-21 to Gly-37, Leu-63 to Asn-76.			H0521: 1	
HDPGS45	921381	8989	24 - 236	18741					L0748: 3 and H0521: 1.	
HDPGS43	715232	8990	39 - 212	18742		Arg-15 to Pro-21, Gln-44 to Ala-57.			L0794: 1, L0766: 1, H0521: 1, L0750: 1, L0777: 1 and L0759: 1.	
HDPGS16	909833	8991	188 - 460	18743		Asp-40 to Leu-46, Phe-50 to Arg-61, Pro-76 to Asp-83.			AR061: 0, AR089: 0 H0521: 1 and L0758: 1.	

HDPGS01	916352	8992	58 - 204	18744	Pro-6 to Gly-13.	H0521: 1		
HDPGR44	468389	8993	1 - 225	18745	Gly-1 to Ile-10, Pro-22 to Gly-27.	H0521: 1		
HDPGN15	394693	8994	195 - 389	18746	Pro-20 to His-25, Arg-55 to Cys-61.	H0521: 1		
HDPGN13	416046	8995	1 - 147	18747	Gly-27 to Asn-32, Gly-42 to Pro-49.	H0521: 1		
HDPGN11	966923	8996	300 - 166	18748		L0766: 1 and H0521: 1.		
HDPGI49	722903	8997	119 - 310	18749		H0521: 1 and L0748: 1.		
HDPGI75	766618	8998	156 - 302	18750	Arg-18 to Gln-24.	H0521: 1		
HDPGI74	765524	8999	87 - 209	18751	Pro-18 to Lys-35.	H0521: 1		
HDPGH73	764397	9000	2 - 118	18752	Glu-6 to Gly-11, Lys-18 to Ile-32.	H0521: 1		
HDPGG01	916389	9001	282 - 115	18753		H0521: 1 and L0604: 1.		
HDPGD28	879489	9002	223 - 441	18754	Phe-19 to Asp-28.	H0521: 1, L0748: 1 and L0749: 1.		
HDPFZ70	709684	9003	482 - 775	18755	Leu-40 to Gly-93.	AR054: 199, AR051: 196, AR050: 193, AR089: 22, AR061: 4 H0521: 1		
	872273	9736	289 - 522	19488				
HDPFW02	919306	9004	211 - 2	18756	Ala-60 to Gly-70.	H0521: 1		
HDPFS71	486744	9005	481 - 329	18757		H0521: 1		
HDPFS59	486737	9006	65 - 196	18758	Lys-38 to His-43.	H0521: 1		
HDPFP96	796360	9007	116 - 226	18759	Gly-1 to Lys-6, Phe-9 to Thr-17, Lys-27 to Thr-33.	H0521: 1 and L0581: 1.		
HDPFP71	760327	9008	374 - 655	18760	Thr-10 to Cys-17, His-39 to Gly-46, Arg-58 to Ser-71.	L0747: 2 and H0521: 1.		
HDPFP14	486765	9009	127 - 321	18761		H0521: 1		
	495698	9737	446 - 279	19489	Ser-18 to Thr-25, Pro-35 to Ser-40.			
HDPFN23	486738	9010	315 - 455	18762	Ala-1 to Glu-16,	H0521: 1		
	495721	9738	346 - 149	19490	Pro-37 to Ala-45,			

HDPFM28	486766	9011	1 - 243	18763	Pro-47 to Lys-54. Ser-5 to Ser-14, Ser-34 to Gly-45, Gly-51 to Cys-56.	H0521: 1		
	495724	9739	477 - 223	19491				
	486739	9012	43 - 198	18764	His-17 to Cys-22.	H0521: 1		
HDPFL52	495697	9740	195 - 1	19492	Lys-1 to Lys-7, Pro-45 to Arg-54, Asp-60 to Pro-65.			
	783957	9013	229 - 74	18765	Ile-87 to Ile-94.	H0521: 1 and L0750: 1. H0521: 1, L0777: 1 and L0759: 1.		
HDPFD10	964521	9014	270 - 632	18766				
HDPFB03	936331	9015	326 - 607	18767	Tyr-12 to Gly-17, Tyr-75 to Asp-81.	L0776: 1, H0521: 1 and L0748: 1.		
HDPDH08	959303	9016	155 - 352	18768		H0521: 1 and L0588: 1.		
HDPDD12	970592	9017	379 - 164	18769	Thr-30 to Asn-35.	L0770: 11, L0775: 1, L0787: 1, L0666: 1 and H0521: 1.		
HDPDC90	590161	9018	101 - 241	18770	Val-3 to Tyr-17.	H0521: 1		
	950991	9741	564 - 785	19493				
HDPY47	775412	9019	2 - 358	18771		H0521: 1 and L0750: 1.		
HDP89	786075	9020	2 - 175	18772	Ala-1 to Arg-6, Thr-30 to Ser-43.	H0521: 1		
HDP64	746527	9021	138 - 332	18773		H0521: 1		
HDP48	721620	9022	317 - 418	18774		H0521: 1		
HDP46	719014	9023	210 - 356	18775		H0521: 1		
HDP43	715227	9024	198 - 446	18776	Pro-1 to Asn-6, Asp-19 to Lys-35.	H0521: 1		
HDP16	416032	9025	263 - 421	18777		H0521: 1		
HDP12	852847	9026	80 - 310	18778		H0521: 1		
HDP88	416035	9027	219 - 365	18779	Lys-28 to Thr-33.	H0521: 1		
HDP73	764400	9028	1 - 138	18780		H0521: 1		
HDP33	416028	9029	169 - 351	18781		H0521: 1		
HDP66	852849	9030	50 - 472	18782	Thr-6 to Gly-11, Pro-29 to Met-40.	H0521: 1	16q12-q13	114835, 132700, 172490, 600968

HDPCM62	454740	9031	137 - 382	18783	His-1 to Asn-12, Pro-14 to Pro-27, Asn-33 to Ser-39, Pro-41 to Asn-46, Pro-74 to Pro-82.	AR061: 159, AR089: 121 H0521: 1	1p34.1-p32	120550, 120570, 120575, 120950, 120960, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 187040, 255800, 600101, 600650, 600650, 600722, 600722
HDPCH45	974424	9032	221 - 382	18784		H0521: 1		
HDPCH85	973314	9033	7 - 222	18785		H0521: 1		
HDPCH33	495711	9034	509 - 330	18786	Gly-3 to Asn-15.	H0521: 1		
	852850	9742	8 - 190	19494	Gln-29 to Tyr-45.			
	852872	9743	122 - 304	19495				
HDPCH67	878776	9035	3 - 299	18787	Glu-11 to Ala-20, Gly-74 to Pro-80.	H0521: 1 and L0747: 1.		
HDPBQ75	466645	9036	1 - 429	18788	Glu-22 to Asp-29, Asp-53 to Ser-63, Met-95 to Arg-104, Thr-115 to Asn-126.	H0521: 1 and L0600: 1.		
HDPBP64	746537	9037	3 - 218	18789	Ile-2 to Gln-7, Val-37 to Lys-44, Lys-58 to Ser-64.	H0521: 1 and L0439: 1.		
HDPBI31	852885	9038	400 - 546	18790		H0521: 1 and L0751: 1.		
HDPBF15	852880	9039	189 - 28	18791	Thr-18 to Ile-37.	H0521: 1 and L0751: 1.		
HDPBE85	783544	9040	3 - 224	18792	Cys-27 to Asn-41.	L0748: 4 and H0521: 1.		
HDPAX21	670893	9041	278 - 418	18793		H0521: 1 and L0599: 1.		
HDPV46	719027	9042	103 - 291	18794	Glu-22 to Thr-27, Pro-38 to Thr-43, Lys-52 to Gln-57.	H0521: 1 and L0596: 1.		
HDPAP04	615193	9043	128 - 370	18795		H0521: 1 and L0748: 1.		
HDPAP08	972332	9044	1054 - 752	18796	Lys-28 to Ser-38, Arg-51 to Gly-64.	AR061: 30, AR089: 13 H0521: 1		
HDPAP04	746550	9045	305 - 457	18797		H0521: 1 and L0439: 1.	9q13-q21	190100, 200150, 229300, 229300,

HDPAN94	901123	9046	242 - 463	18798				AR050: 3, AR051: 2, AR054: 0 H0521: 1		600429, 600884, 600974, 600998, 602014
HDPK09	494170	9047	143 - 48	18799			Arg-3 to Gly-16.	H0521: 1		
	852903	9744	321 - 464	19496						
HDPKJ64	881654	9048	46 - 324	18800			Cys-38 to Pro-44, Glu-50 to Ser-56.	H0521: 1		
HDPKJ17	663779	9049	122 - 331	18801			His-57 to Glu-63.	L0748: 2, L0747: 2, H0521: 8q 1 and L0749: 1.		
HDPKJ40	856391	9050	442 - 567	18802				L0599: 2 and H0521: 1.		
HDPKJ90	787296	9051	1 - 216	18803				L0605: 2, H0521: 1, L0748: 1, L0745: 1 and L0747: 1.		
HDPKJ78	773570	9052	109 - 213	18804				H0521: 1 and L0748: 1.		
HDPKJ34	581900	9053	358 - 2	18805			Cys-72 to Thr-79, Thr-105 to Gly-119.	H0521: 1		
	959495	9745	2 - 169	19497						
	959496	9746	1 - 39	19498						
HDPKJ80	775417	9054	89 - 310	18806				H0521: 1 and L0748: 1.		
HDPKJ38	546575	9055	184 - 2	18807			Lys-51 to Gly-61.	H0521: 1		
HDLBE11	966230	9056	109 - 2	18808			Thr-1 to Gly-6, Gln-13 to Phe-20.	H0485: 1 and L0751: 1.		
HDLX74	765091	9057	277 - 516	18809			Gly-1 to Gln-8, Leu-17 to Cys-26, Pro-38 to Gln-47, Ser-59 to Gly-66.	L0753: 3 and H0485: 1.		
HDLX52	726241	9058	615 - 794	18810				H0485: 1 and L0731: 1.	10q	
HDLXW58	735559	9059	111 - 395	18811			Asn-78 to Tyr-83.	H0485: 1 and L0759: 1.		
HDLAV11	852919	9060	122 - 256	18812				H0485: 1 and L0766: 1.		
HDLG57	565105	9061	211 - 441	18813			Arg-9 to Gly-20.	H0485: 1		
HDLAC67	751699	9062	1 - 141	18814			Asn-14 to Ile-19.	H0485: 1		
HDLAC51	799888	9063	261 - 428	18815			Leu-20 to Asn-25, Leu-41 to Asn-51.	H0485: 1		
HDLAC30	799891	9064	3 - 209	18816			Asp-1 to Arg-18.	H0485: 1		

HDLAA58	736081	9065	297 - 491	18817			H0485: 1	
HDCBF12	969401	9066	1 - 189	18818	Ser-16 to Ser-21.		H0637: 1 and L0658: 1.	
HDCBD07	951948	9067	1 - 180	18819	Phe-6 to Thr-11.		H0637: 1 and L0666: 1.	
HDCAN06	933818	9068	3 - 176	18820			H0637: 1 and L0601: 1.	
HDCAG61	852968	9069	80 - 298	18821			H0637: 1 and L0518: 1.	
HDBAK09	625387	9070	316 - 546	18822	Asn-6 to Arg-11.		H0578: 1 and L0755: 1.	
HDBAA11	966723	9071	283 - 459	18823	Leu-3 to Gln-9.		L0717: 1 and H0578: 1.	
HCWVH01	915420	9072	78 - 194	18824			H0589: 1 and L0753: 1.	
HCWVA80	974488	9073	1 - 135	18825	Glu-1 to Gln-22.		H0589: 1	
HCWUS57	974462	9074	104 - 433	18826	Leu-28 to Ser-33, Thr-57 to Lys-63, Lys-75 to Trp-84, Thr-94 to Gly-103.		H0589: 1	
HCWUS50	974467	9075	328 - 516	18827	His-26 to Gln-39, Leu-53 to Tyr-61.		H0589: 1	
HCWUQ81	853002	9076	285 - 518	18828	Val-10 to Gly-15.		H0589: 1 and L0748: 1.	
HCWUQ10	964080	9077	1 - 207	18829	Ser-31 to Gly-45, Glu-60 to Asn-65.		H0589: 1, L0775: 1 and L0758: 1.	
HCWUP62	743064	9078	218 - 430	18830			H0589: 1, L0743: 1 and L0744: 1.	
HCWUM01	974466	9079	1 - 243	18831	His-71 to Pro-77.		H0589: 1	
HCWUL35	706530	9080	69 - 191	18832	Ala-7 to His-12.		L0777: 2 and H0589: 1.	
HCWUJ49	722674	9081	152 - 367	18833	Glu-16 to Arg-21, Pro-35 to Ala-41.		H0589: 1 and L0596: 1.	
HCWTP17	662486	9082	16 - 225	18834	Ser-23 to Lys-29, Ser-55 to Asp-68.		H0589: 1 and L0740: 1.	
HCWTL02	919252	9083	99 - 308	18835	Leu-2 to Ser-9.		H0589: 1 and L0759: 1.	
HCWSC38	706523	9084	194 - 547	18836	Ala-6 to Leu-11, Leu-70 to Ser-83.		H0305: 1 and L0758: 1.	
HCWLA43	927571	9085	130 - 324	18837			H0305: 1 and L0748: 1.	
HCWKT71	888167	9086	2 - 322	18838	Thr-7 to Ser-35.		AR050: 1, AR051: 1, AR054: 1	
HCWKS70	757172	9087	44 - 142	18839	Thr-14 to Gln-25.		H0305: 1	
HCWKS35	706518	9088	147 - 332	18840	Phe-1 to Leu-6.		H0305: 1	

HCWKR86	784705	9089	263 - 376	18841	Gln-32 to Gly-38.	H0305: 1		
HCWKR85	783555	9090	138 - 284	18842	Arg-6 to Leu-13, Cys-20 to His-27, Lys-41 to Pro-47.	H0305: 1		
HCWKR62	742602	9091	121 - 255	18843	Leu-21 to Gly-26, Ser-35 to Cys-42.	H0305: 1		
HCWKR51	725027	9092	79 - 225	18844		H0305: 1		
HCWKR14	658421	9093	128 - 334	18845	Ser-8 to Pro-19.	H0305: 1		
HCWKQ09	625546	9094	57 - 314	18846	Gln-39 to Trp-47.	H0305: 1, L0748: 1 and L0749: 1.		
HCWKI72	760628	9095	62 - 169	18847		H0305: 1 and L0741: 1.		
HCWKD85	783545	9096	38 - 202	18848	Arg-26 to Ile-36.	H0305: 1 and L0757: 1.		
HCWKC61	741803	9097	2 - 241	18849	Lys-1 to Ser-16, Arg-24 to Ser-32, Glu-49 to Asp-58, Ala-67 to Thr-74.	L0748: 2, L0749: 2 and H0305: 1.		
HCWHN53	728248	9098	148 - 345	18850		H0305: 1 and L0731: 1.		
HCWHF76	838528	9099	448 - 693	18851	Lys-1 to Trp-10, Cys-34 to His-41, Thr-48 to Glu-62.	AR051: 31, AR050: 26, AR054: 20 H0305: 1		
HCWGY56	732688	9100	99 - 230	18852		H0305: 1 and L0748: 1.		
HCWGU65	747198	9101	535 - 116	18853		H0305: 1		
	747199	9747	86 - 301	19499	Ser-11 to Cys-20, Leu-27 to Val-36.			
HCWGR02	920121	9102	1 - 291	18854	Ile-1 to Asp-7.	H0305: 1, L0803: 1 and L0599: 1.		
HCWGE86	974476	9103	348 - 530	18855		H0305: 1		
HCWGE85	783528	9104	238 - 360	18856	Pro-34 to Gln-39.	H0305: 1 and L0749: 1.		
HCWGA64	746153	9105	30 - 152	18857		H0305: 1		
HCWFFV07	953582	9106	32 - 430	18858	Asn-14 to Glu-22, Arg-30 to Ala-37, Ser-45 to Gly-74.	H0305: 1, L0779: 1 and L0758: 1.		
HCWFFU40	710419	9107	49 - 291	18859		H0305: 1 and L0777: 1.		
HCWFM44	716726	9108	108 - 584	18860	Arg-2 to His-13.	L0754: 2, H0305: 1 and L0748: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391,

									160900, 164731, 173850, 207750, 248600, 258501
HCWFK37	800389	9109	128 - 304	18861		Pro-19 to Gln-25, Lys-45 to Leu-52.	AR050: 18, AR054: 12, AR051: 8 H0305: 1		
HCWFI71	489879	9110	2 - 328	18862		Thr-78 to Ala-86, Pro-98 to Gln-109.	H0305: 1		
HCWFE35	722467	9111	2 - 370	18863		Arg-1 to Arg-6.	L0740: 2, H0305: 1, L0157: 1 and L0755: 1.		
HCWFA63	578898	9112	1 - 237	18864		Gly-6 to Gln-14, Cys-24 to Phe-29.	H0305: 1		
HCWFA51	584725	9113	1 - 234	18865		Gly-6 to Gln-14, Cys-24 to Phe-29.	H0305: 1		
HCWFA35	908820	9114	50 - 364	18866		Lys-19 to Thr-26.	AR089: 13, AR061: 6 H0305: 1		
HCWFA27	578899	9115	86 - 349	18867		Gln-2 to Ser-7, Leu-20 to Lys-26.	H0305: 1		
HCWFA03	921938	9116	244 - 381	18868			H0305: 1		
HCWEW92	573389	9117	1 - 129	18869		Leu-20 to Thr-34.	H0305: 1		
HCWEW68	849928	9118	125 - 268	18870		Ala-29 to Gln-39.	H0305: 1		
HCWES28	685585	9119	2 - 127	18871			H0305: 1		
HCWER13	586984	9120	29 - 187	18872			H0305: 1		
HCWEQ61	741989	9121	2 - 301	18873		Glu-26 to Gln-31, Lys-41 to Glu-50.	H0305: 1, L0748: 1 and L0749: 1.		
HCWEH95	795046	9122	151 - 276	18874		Arg-1 to Trp-6, Cys-13 to Arg-19.	H0305: 1 and L0748: 1.		
HCWDO74	576471	9123	3 - 206	18875			H0305: 1		
HCWDO26	576470	9124	40 - 147	18876			H0305: 1		
HCWDJ81	514607	9125	278 - 144	18877			H0305: 1		
	588502	9748	11 - 343	19500					
	623460	9749	99 - 326	19501		Pro-35 to Thr-40, Trp-51 to Ser-58.			
HCWCR40	711507	9126	176 - 316	18878		Phe-3 to Lys-8, Ser-15 to Val-22.	L0766: 2, H0305: 1 and L0745: 1.		
HCWCN11	849959	9127	717 - 896	18879			L0766: 2, L0748: 2 and		

HCWCM08	849958	9128	122 - 340	18880			H0305: 1.		
HCWCL46	719244	9129	240 - 410	18881		Gly-11 to Lys-16.	H0305: 1		
HCWCJ16	411336	9130	175 - 465	18882		Thr-72 to Tyr-79.	H0305: 1, L0774: 1 and L0465: 1.		
	514257	9750	549 - 355	19502		Ser-1 to Gly-10.	H0305: 1		
HCWCI85	840121	9131	210 - 389	18883					
HCWCH85	753191	9132	102 - 257	18884		Ser-1 to Arg-9, Leu-13 to Gly-25, Pro-31 to Ile-36.	H0305: 1 and L0766: 1.		
HCWCH11	967666	9133	172 - 291	18885		Tyr-3 to Ser-10.	H0305: 1, L0109: 1, L0749: 1, L0779: 1 and L0599: 1.		
HCWBM07	954100	9134	108 - 467	18886		Tyr-17 to Ala-33, Pro-58 to Asp-63, Arg-89 to Asp-94, Ala-97 to Pro-104.	L0748: 11 and H0305: 1.		
HCWAN45	728385	9135	236 - 60	18887		Arg-42 to Asp-59.	H0305: 1		
	889047	9751	11 - 223	19503					
HCWAI53	586997	9136	67 - 300	18888		Val-4 to Lys-13.	H0305: 1		
HCWAB85	783392	9137	180 - 311	18889		Pro-1 to Val-7.	H0305: 1		
HCWAB72	766288	9138	56 - 211	18890			H0305: 1		
HCWAB49	529659	9139	2 - 64	18891		Thr-3 to His-12.	H0305: 1		
HCWAB37	575491	9140	56 - 190	18892		Ala-18 to Trp-31, Thr-33 to Ser-38.	H0305: 1		
HCWAB36	529660	9141	98 - 244	18893		Tyr-1 to Asp-17, Trp-37 to Cys-44.	H0305: 1		
HCWAB35	416968	9142	1 - 201	18894		Ser-12 to Ser-17.	H0305: 1		
HCWAB25	575270	9143	21 - 137	18895		Arg-6 to Leu-13.	H0305: 1		
HCWAB23	529664	9144	2 - 241	18896		His-45 to Gln-53, Pro-56 to Thr-74.	H0305: 1 and L0789: 1.		
HCVAC86	785784	9145	27 - 227	18897		Leu-7 to Leu-13.	H0300: 1		
HCVAC80	529688	9146	143 - 316	18898			H0300: 1		
HCVAC73	529687	9147	2 - 226	18899		Pro-53 to Trp-62.	H0300: 1		
HCVAC72	529693	9148	39 - 260	18900			H0300: 1		

HCVAC70	507284	9149	115 - 354	18901	Gly-9 to Ser-17, Thr-51 to Thr-57.	H0300: 1 and L0604: 1.		
HCVAC58	575510	9150	2 - 202	18902	Ser-16 to Ala-22, Lys-61 to Gln-67.	H0300: 1		
HCVAC47	861969	9151	168 - 326	18903		H0300: 1	12	
HCVAC45	529691	9152	2 - 289	18904	Ala-1 to Trp-8, Glu-22 to Leu-28, Leu-32 to Pro-55, Arg-64 to Asp-69, Glu-73 to Leu-79.	H0300: 1	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HCVAC38	529692	9153	209 - 319	18905		H0300: 1		
HCVAC33	529694	9154	191 - 331	18906		H0300: 1		
HCVAC26	529698	9155	69 - 290	18907	Pro-15 to Arg-20.	H0300: 1		
HCVAC21	529695	9156	55 - 222	18908	Met-1 to Ser-6.	H0300: 1		
HCVAC19	879694	9157	3 - 197	18909		H0300: 1		
HCUJO6	934889	9158	229 - 372	18910	Ser-24 to Asp-37.	H0402: 1		
HCUIM28	849998	9159	2 - 409	18911	Pro-16 to Thr-29, Pro-45 to Ala-53, Pro-72 to Trp-77, Pro-101 to Ser-107.	H0402: 1 and L0759: 1.		
HCUK74	765645	9160	50 - 292	18912		L0750: 2 and H0402: 1.		
HCUHY13	657297	9161	120 - 386	18913		H0402: 1 and L0361: 1.		
HCUHY10	964727	9162	60 - 224	18914		H0402: 1 and L0748: 1.		
HCUHU61	850008	9163	183 - 395	18915	Glu-8 to Arg-15.	H0402: 1 and L0717: 1.		
HCUHU54	730739	9164	200 - 367	18916		H0402: 1 and L0754: 1.		
HCUHT92	792756	9165	3 - 206	18917	Asn-20 to Cys-25, Asn-30 to Ala-38.	H0402: 1 and L0748: 1.		
HCUHT74	765641	9166	113 - 256	18918	Asp-1 to Glu-8.	H0402: 1		
HCUHT37	575794	9167	87 - 200	18919	Asn-8 to Thr-31, Leu-33 to Trp-38.	H0402: 1		
HCUHT26	681874	9168	2 - 118	18920		H0402: 1		
HCUHT13	657295	9169	17 - 217	18921	Asn-11 to Lys-16.	H0402: 1		
HCUHT03	924494	9170	130 - 282	18922	Glu-37 to Gly-44.	L0748: 2 and H0402: 1.		
HCUHS21	670988	9171	247 - 423	18923		H0402: 1 and L0748: 1.		
HCUHO27	690027	9172	28 - 177	18924		L0731: 3, L0768: 2, H0402:		

HCUHO13	879921	9173	515 - 276	18925			1, L0659: 1 and L0759: 1.		
HCUHK11	967142	9174	180 - 410	18926			H0402: 1		
HCUHH95	941943	9175	1411 - 1061	18927			H0402: 1, L0717: 1 and L0612: 1.		
HCUHH04	927500	9176	3 - 566	18928			H0402: 1		
HCUHG67	751673	9177	563 - 760	18929			L0777: 2 and H0402: 1.		
HCUGT86	784694	9178	133 - 312	18930			H0402: 1 and L0468: 1.		
HCUGS67	751669	9179	328 - 450	18931			H0402: 1 and L0596: 1.		
HCUGO07	953412	9180	122 - 262	18932			H0402: 1 and L0518: 1.		
HCUGN19	716989	9181	35 - 382	18933			AR089: 7, AR061: 2 L0744: 3, L0766: 2, H0402: 1 and L0754: 1.		
HCUGM93	792329	9182	5 - 262	18934			H0402: 1 and L0748: 1.		
HCUGM64	745853	9183	193 - 330	18935			H0402: 1 and L0747: 1.		
HCUGL20	668913	9184	112 - 303	18936			H0402: 1 and L0748: 1.		
HCUGL01	916550	9185	1 - 162	18937			L0785: 1 and H0402: 1.		
HCUGK86	785517	9186	164 - 301	18938			H0402: 1		
HCUGK85	783521	9187	3 - 329	18939			H0402: 1		
HCUGK78	773601	9188	69 - 227	18940			H0402: 1		
HCUGK64	746604	9189	3 - 137	18941			H0402: 1		
HCUGK54	730709	9190	3 - 116	18942			H0402: 1		
HCUGK51	725013	9191	2 - 178	18943			H0402: 1		
HCUGK38	706479	9192	19 - 174	18944			H0402: 1		
HCUGK25	678130	9193	1 - 165	18945			H0402: 1		
HCUGK18	666454	9194	110 - 259	18946			H0402: 1		
HCUGK17	424102	9195	34 - 204	18947			H0402: 1		
HCUGK14	657539	9196	2 - 265	18948			H0402: 1 and L0662: 1.		
HCUGK05	932078	9197	3 - 125	18949			H0402: 1		
HCUGI64	746608	9198	2 - 283	18950			H0402: 1		
HCUGH79	775206	9199	178 - 279	18951			H0402: 1		

HCUGH64	746600	9200	35 - 133	18952	Leu-19 to Lys-24. Met-1 to Trp-7, Arg-20 to Gln-33.	H0402: 1		
HCUGH52	726052	9201	67 - 183	18953		H0402: 1		
HCUGH44	716624	9202	1 - 60	18954		H0402: 1		
HCUGH42	713782	9203	89 - 274	18955	Lys-1 to Lys-6.	H0402: 1		
HCUGD30	850041	9204	178 - 432	18956	Glu-7 to Gln-14.	L0777: 2, L0599: 2, H0402: 1 and L0369: 1.		
HCUGC25	464029	9205	27 - 287	18957	Gly-67 to Glu-73, Val-82 to Tyr-87.	H0402: 1 and L0740: 1.		
HCUGB93	850043	9206	2 - 187	18958	Tyr-40 to Gln-45.	H0402: 1		
HCUGB58	736092	9207	30 - 113	18959	Lys-19 to Pro-28.	H0402: 1		
HCUGB37	706468	9208	56 - 208	18960	Leu-26 to Arg-31, Gly-38 to Lys-51.	H0402: 1		
HCUGB22	575851	9209	3 - 134	18961		H0402: 1		
HCUGB20	669742	9210	113 - 226	18962		H0402: 1		
HCUGB14	854035	9211	185 - 373	18963	Glu-27 to Ser-39.	H0402: 1		
HCUFY79	494008	9212	511 - 245	18964		H0402: 1		
	882298	9752	287 - 571	19504	Lys-12 to Glu-25, Gly-64 to Asp-79.			
HCUFW11	850054	9213	222 - 401	18965	Gln-1 to Trp-6, Met-21 to Ser-30, Pro-54 to Ala-60.	H0402: 1 and L0748: 1.		
HCUFW09	625658	9214	1 - 186	18966	Lys-1 to Pro-6, Ser-8 to Thr-15.	H0402: 1 and L0599: 1.		
HCUFT37	706467	9215	239 - 370	18967		H0402: 1, L0021: 1, L0065: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0791: 1, L0665: 1 and L0747: 1.		
HCUFQ08	959567	9216	1 - 342	18968	Leu-21 to Asn-27.	H0402: 1 and L0369: 1.		
HCUFP11	967155	9217	2 - 220	18969	Lys-1 to His-6, Pro-20 to Ala-25, Pro-35 to Val-40, Leu-53 to Ser-61.	H0402: 1 and L0749: 1.		
HCUFO96	796434	9218	2 - 136	18970		H0402: 1		
HCUFO93	792376	9219	64 - 210	18971	Ser-1 to His-12,	H0402: 1		

HCUFO68	753083	9220	3 - 122	18972	Pro-15 to Ser-29.			
HCUFO43	715337	9221	61 - 225	18973	Pro-6 to Thr-18.	H0402: 1		
HCUFO36	575850	9222	79 - 366	18974	Gly-15 to Cys-33, Glu-40 to Lys-52.	H0402: 1		
HCUFO24	677273	9223	70 - 327	18975	Thr-1 to Gly-9, Pro-68 to Glu-79, Pro-91 to Arg-96.	H0402: 1		
HCUFO11	967156	9224	2 - 160	18976	Glu-33 to Thr-44.	H0402: 1	5q31.3-q33.1	109690, 109690, 131400, 154500, 159000, 180071, 181460, 222600, 222600, 222600, 272750, 600807, 601596, 602089
HCUFN78	773620	9225	1 - 168	18977		H0402: 1 and L0754: 1.		
HCUFM35	706461	9226	253 - 414	18978		H0402: 1, L0766: 1, L0647: 1, L0749: 1 and L0605: 1.		
HCUFL40	711242	9227	96 - 326	18979	Ala-1 to Ser-8.	L0604: 2 and H0402: 1.		
HCUFK35	706460	9228	161 - 457	18980	Ser-18 to Ala-24, Gly-32 to Asp-41, Arg-52 to Ile-57.	L0605: 2, H0402: 1, L0777: 1 and L0604: 1.		
HCUFK09	961145	9229	1 - 333	18981		H0402: 1 and L0365: 1.		
HCUFJ08	850074	9230	51 - 215	18982	Leu-1 to Gly-7.	H0402: 1 and L0601: 1.		
HCUFI50	974472	9231	90 - 425	18983		H0402: 1		
HCUFF74	765662	9232	11 - 112	18984		H0402: 1 and L0596: 1.		
HCUFE55	731843	9233	48 - 152	18985	His-5 to Ser-10.	H0402: 1 and L0750: 1.		
HCUFE54	730745	9234	145 - 312	18986	Pro-2 to Tyr-7, Pro-30 to Cys-36.	H0402: 1 and L0751: 1.		
HCUFD70	757280	9235	346 - 534	18987	Pro-6 to Ser-12, Asp-19 to Ile-25.	L0748: 2 and H0402: 1.		
HCUES01	916805	9236	163 - 384	18988		L0369: 2 and H0402: 1.		
HCUEQ12	922556	9237	368 - 138	18989		H0402: 1 and L0731: 1.	3q26	165215, 222900, 600049
HCUFP32	586999	9238	127 - 273	18990	Leu-7 to Gly-17, Leu-23 to Cys-28,	H0402: 1		

HCUEO74	576576	9239	2 - 223	18991	Glu-35 to Lys-46. Val-24 to Gly-35, Pro-46 to Cys-51, Thr-57 to Lys-74.	H0402: 1		
HCUEO20	669764	9240	267 - 464	18992	Lys-6 to Leu-16.	H0402: 1 and L0600: 1.		
HCUEM93	792424	9241	52 - 240	18993	Gly-1 to Cys-6.	L0748: 2 and H0402: 1.		
HCUEM15	660450	9242	236 - 370	18994	Glu-32 to Gly-38.	H0402: 1 and L0362: 1.		
HCUEL24	677300	9243	171 - 341	18995		L0439: 2 and H0402: 1.		
HCUEL07	953587	9244	211 - 462	18996	Glu-12 to Asp-21, Pro-33 to Ser-53, Leu-60 to Thr-69.	L0599: 2, H0402: 1 and L0769: 1.		
HCUEG27	683541	9245	314 - 544	18997		H0402: 1 and L0748: 1.		
HCUEF38	706450	9246	1 - 171	18998	Leu-16 to Asp-21.	H0402: 1		
HCUED05	932123	9247	3 - 194	18999	Ser-15 to Cys-31.	H0402: 1		
HCUDY74	839955	9248	133 - 321	19000	Ala-42 to Glu-49.	H0402: 1 and L0520: 1.		
HCUDX89	974483	9249	3 - 227	19001	Asp-11 to Arg-17, Arg-32 to Pro-44, Leu-53 to His-58, Gln-68 to Cys-75.	H0402: 1		
HCUDU18	850099	9250	1 - 261	19002	Arg-33 to Thr-39.	H0402: 1 and L0589: 1.		
HCUDQ81	902510	9251	144 - 329	19003	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Lys-62.	H0402: 1		
	928439	9753	440 - 3	19505	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Ser-64, Asn-88 to Asn-97, Gln-104 to Glu-109.			
HCUDQ45	881366	9252	295 - 591	19004	Pro-43 to Trp-48, Ser-81 to Ser-90.	H0402: 1		
HCUDN89	811185	9253	2 - 328	19005		H0402: 1 and L0756: 1.		
HCUDN82	779978	9254	185 - 310	19006		H0402: 1 and L0599: 1.		
HCUDN71	862116	9255	2 - 394	19007		H0402: 1 and L0766: 1.		
HCUDK08	959679	9256	188 - 316	19008		H0402: 1 and L0803: 1.		
HCUDI17	664109	9257	57 - 227	19009	Leu-18 to Ser-25.	H0402: 1		
HCUDG26	681985	9258	226 - 369	19010		H0402: 1 and L0591: 1.		

HCUIDD07	953588	9259	2 - 235	19011		H0402: 1		
HCUC58	850117	9260	1 - 165	19012		H0306: 1 and L0750: 1.		
HCUCJ14	659221	9261	189 - 353	19013	Trp-1 to Ser-9.	H0306: 1, L0748: 1 and L0749: 1.		
HCUCI23	676276	9262	119 - 208	19014		H0306: 1 and L0745: 1.		
HCUCCH29	608615	9263	2 - 343	19015	Ser-25 to Ser-30.	AR051: 9, AR050: 3, AR054: 2		
	637567	9754	2 - 337	19506	Ser-23 to Ser-28, Cys-79 to His-84.	H0306: 1		
HCUCG40	800153	9264	1 - 153	19016		AR054: 24, AR051: 19, AR050: 12		
						H0306: 1		
HCUCG07	953823	9265	73 - 300	19017	Lys-19 to Lys-25.	H0306: 1 and L0387: 1.		
HCUCD83	781346	9266	115 - 381	19018		H0306: 1 and L0755: 1.		
HCUCD05	932333	9267	116 - 376	19019		L0588: 2, H0306: 1 and L0747: 1.		
HCUBX45	850122	9268	125 - 400	19020	Ser-1 to Gly-7.	H0306: 1, L0800: 1, L0809: 1 and L0779: 1.		
HCUBV91	790368	9269	47 - 223	19021		H0306: 1 and L0596: 1.		
HCUBT35	850126	9270	121 - 291	19022	Glu-50 to Ala-57.	H0306: 1 and L0748: 1.		
HCUBS07	953861	9271	85 - 243	19023	Asp-13 to Trp-18, Leu-39 to Gly-46.	H0306: 1 and L0749: 1.		
HCUBP94	574198	9272	3 - 143	19024	Cys-11 to Gln-20.	H0306: 1		
HCUBP82	526773	9273	1 - 69	19025		H0306: 1		
HCUBP48	577289	9274	1 - 222	19026	Asn-12 to His-19, Lys-61 to Thr-72.	H0306: 1 and L0748: 1.		
HCUBP34	576462	9275	177 - 383	19027		H0306: 1		
HCUBP10	961259	9276	3 - 203	19028	Lys-1 to Thr-7, Thr-17 to Gln-25, Leu-29 to Arg-44.	H0306: 1		
HCUBO67	526489	9277	128 - 232	19029	Pro-15 to Cys-28.	H0306: 1		
HCUBM73	577294	9278	1 - 201	19030	Pro-1 to Cys-16.	H0306: 1 and L0748: 1.		
HCUBM49	722190	9279	163 - 438	19031	Gly-84 to Thr-90.	L0749: 2, H0306: 1 and L0748: 1.		
HCUBL10	968223	9280	222 - 410	19032		H0306: 1 and L0761: 1.		

HCUBI45	723364	9281	194 - 367	19033	Lys-12 to Gly-21.	L0748: 2 and H0306: 1.	
HCUBG69	757752	9282	2 - 238	19034		H0306: 1	
HCUBG43	576468	9283	202 - 381	19035		H0306: 1	
HCUBE89	785987	9284	2 - 169	19036	Glu-1 to Lys-13, Gly-34 to His-39.	L0777: 2 and H0306: 1.	
HCUBE49	723175	9285	47 - 193	19037	Ser-3 to Gly-10, Leu-13 to His-20.	H0306: 1 and L0599: 1.	
HCUBE22	409828	9286	338 - 499	19038		H0306: 1	
HCUBB68	752247	9287	174 - 380	19039		H0306: 1 and L0748: 1.	
HCUBA93	792515	9288	297 - 440	19040		H0306: 1 and L0591: 1.	
HCUAZ01	917266	9289	176 - 298	19041	Pro-19 to Arg-34.	H0306: 1 and L0634: 1.	
HCUAW03	924897	9290	193 - 426	19042	Thr-20 to Asp-25, His-42 to Ser-58, Asn-68 to Leu-73.	H0306: 1 and L0776: 1.	
HCUAP34	706426	9291	8 - 97	19043		H0306: 1 and L0748: 1.	
HCUAN95	796010	9292	2 - 100	19044		H0306: 1	
HCUAN89	574275	9293	49 - 141	19045	Ser-21 to Lys-31.	H0306: 1	
HCUAN53	728364	9294	2 - 133	19046		H0306: 1	
HCUAM65	887470	9295	225 - 464	19047		AR050: 38, AR054: 30, AR051: 29	
HCUAL33	702677	9296	8 - 181	19048		H0306: 1	
HCUAG10	968229	9297	1 - 168	19049		L0749: 2, H0306: 1 and L0748: 1.	
HCUAF80	862171	9298	3 - 140	19050	Ile-26 to Lys-31, Pro-39 to Pro-44.	H0306: 1 and L0601: 1. L0772: 2 and H0306: 1.	
HCUAF01	850153	9299	53 - 313	19051	Pro-10 to Ser-16.	H0306: 1	
HCUAA92	792947	9300	429 - 593	19052		H0306: 1, L0766: 1, L0745: 1 and L0752: 1.	
HCFOF90	862572	9301	438 - 638	19053	Arg-19 to Arg-25.	L0385: 1 and H0423: 1.	
HCFOO25	678200	9302	115 - 246	19054		L0777: 1 and H0423: 1.	
HCFOO01	916687	9303	230 - 412	19055		L0717: 1 and H0423: 1.	
HCFOF45	850372	9304	145 - 474	19056	Ser-37 to Ser-42.	AR050: 16, AR054: 7, AR051: 4 H0423: 1	

HCFOF34	955905	9305	79 - 249	19057	Ile-1 to Leu-6.	L0375: 1, L0542: 1, L0526: 1, L0749: 1, L0759: 1 and H0423: 1.		
HCFNQ62	745755	9306	2 - 151	19058		L0598: 2, UNKWN: 1, L0748: 1, L0749: 1 and H0423: 1.		
HCFNP09	961149	9307	145 - 393	19059	Ala-15 to Leu-27, Ser-42 to Glu-47.	L0804: 2, L0731: 2, L0747: 1 and H0423: 1.		
HCFNJ34	485822	9308	2 - 325	19060		H0423: 1		
	494112	9755	314 - 135	19507	Arg-25 to Gly-36, Pro-55 to Tyr-60.			
HCFNG63	745148	9309	45 - 245	19061	Thr-54 to Pro-67.	H0423: 1		
HCFNG10	848225	9310	140 - 1036	19062	Pro-4 to Phe-9, Glu-17 to Pro-24, Lys-51 to Ala-104, Lys-114 to Lys-140, Arg-153 to Gln-188, Glu-203 to Gly-234, Gln-247 to Thr-262.	L0766: 1 and H0423: 1.		
HCFNB09	625697	9311	39 - 137	19063		L0748: 1 and H0423: 1.		
HCFNA77	874777	9312	2 - 163	19064	Thr-37 to Cys-43.	L0758: 1 and H0423: 1.		
HCFNA64	850391	9313	171 - 464	19065	Lys-13 to Gln-19, Ser-26 to Cys-40.	L0777: 1 and H0423: 1.		
HCFNA21	671021	9314	115 - 258	19066	Leu-7 to Leu-13, Pro-15 to Cys-28, Arg-41 to Lys-46.	H0423: 1		
HCFMZ90	922112	9315	273 - 881	19067	Asp-1 to Arg-8, Lys-15 to Asn-20, Thr-74 to Leu-80, Pro-84 to Asp-90.	AR061: 2, AR089: 1, L0749: 1, L0731: 1, L0757: 1 and H0423: 1.		
HCFMW71	920506	9316	195 - 407	19068	Pro-7 to Thr-12.	AR089: 10, AR061: 3, L0748: 3, L0749: 3, L0005: 1, L0777: 1, L0361: 1 and H0423: 1.		
HCFMU01	916695	9317	51 - 263	19069	Arg-37 to His-52.	L0766: 2 and H0423: 1.		
HCFMP46	463278	9318	54 - 245	19070	Asp-56 to Tyr-63.	L0756: 2, L0777: 2, L0749: 1.		

HCFM047	881505	9319	125 - 322	19071	Pro-14 to Thr-23, Leu-42 to Ser-51.	1 and H0423: 1. H0423: 1	20q11.2	139190, 139190, 224100, 601002, 601002, 601146, 601146, 601146
HCFML02	920349	9320	278 - 607	19072	Phe-18 to Gly-23, Met-79 to Asp-89.	L0809: 1 and H0423: 1.		
HCFMJ37	955281	9321	137 - 658	19073	Pro-58 to Cys-69, Pro-71 to Glu-77, Tyr-102 to Ser-107.	AR089: 5, AR061: 1 H0423: 1		
HCFMH46	719113	9322	109 - 321	19074		L0654: 1 and H0423: 1.		
HCFLY85	909182	9323	96 - 242	19075	Arg-16 to Arg-21, Trp-37 to Leu-48.	L0766: 2, L0747: 2 and H0423: 1.		
HCFLY53	727465	9324	71 - 265	19076		L0748: 3 and H0423: 1.		
HCFLY08	959620	9325	238 - 495	19077		L0599: 2, L0763: 1, L0805: 1, L0754: 1 and H0423: 1.		
HCFLV30	692781	9326	253 - 462	19078	Glu-9 to Ala-14, Gln-24 to Gln-31, Arg-41 to Pro-48.	L0748: 3 and H0423: 1.		
HCFLT86	785560	9327	246 - 560	19079	Tyr-49 to Ala-55.	L0749: 1 and H0423: 1.		
HCFLM03	850403	9328	219 - 395	19080	Asn-12 to Tyr-23.	L0581: 1 and H0423: 1.		
HCFLLO3	850406	9329	351 - 698	19081	Pro-39 to Gly-47, Asn-55 to Ser-64, Ser-76 to Gln-83.	L0527: 2, L0366: 1 and H0423: 1.		
HCFLK10	964792	9330	230 - 460	19082		L0745: 1, L0750: 1 and H0423: 1.		
HCFLB24	502414	9331	3 - 248	19083	Ser-43 to Ala-49, Gln-76 to Met-82.	H0423: 1		
HCFLD43	511210	9756	433 - 251	19508	Pro-25 to Ser-33.			
	779327	9332	3 - 173	19084	Glu-38 to Gly-43.	L0586: 1, L0756: 1 and H0422: 1.	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
HCFCV32	850413	9333	168 - 377	19085	Asp-22 to Gln-27, Pro-29 to Gly-36.	H0422: 1		

HCFCP77	77256	9334	87 - 194	19086			L0754: 1 and H0422: 1.		
HCFCM75	850435	9335	182 - 355	19087	Glu-1 to Lys-15.		L0740: 1 and H0422: 1.		
HCFCK25	494159	9336	239 - 3	19088	Lys-50 to Lys-64.		L0517: 1 and H0422: 1.		
	519091	9757	212 - 376	19509	Pro-38 to Leu-43, Ile-49 to Cys-55.				
HCFCG23	850426	9337	44 - 247	19089	Lys-46 to Lys-57.		H0422: 1		
HCFCF76	973808	9338	1 - 291	19090			H0422: 1		
HCFCF10	964782	9339	277 - 507	19091	Arg-58 to Glu-66.		L0794: 2 and H0422: 1.		
HCFBX86	844884	9340	425 - 619	19092	Arg-23 to Thr-28.		H0422: 1		
	874103	9758	273 - 485	19510					
HCFCBQ30	692787	9341	505 - 338	19093			L0748: 1, L0754: 1, L0745: 1 and H0422: 1.		
HCFCBM75	766599	9342	137 - 316	19094			L0748: 1 and H0422: 1.		
HCFCBM41	711631	9343	589 - 774	19095	Pro-31 to Lys-38.		L0748: 1 and H0422: 1.		
HCFCBK28	706243	9344	4 - 171	19096			L0754: 1 and H0422: 1.		
HCFBK04	925601	9345	182 - 304	19097	Glu-1 to Trp-7, Gly-35 to His-41.		L0803: 3, L0777: 3, L0756: 2, L0780: 2, L0766: 1, L0774: 1, L0743: 1, L0757: 1, L0596: 1 and H0422: 1.		
							H0422: 1		
HCFCBI51	670066	9346	27 - 518	19098			L0794: 1, L0805: 1, L0439: 1, L0747: 1, L0779: 1, L0758: 1 and H0422: 1.		
HCFCBA94	698647	9347	139 - 291	19099			AR051: 13, AR054: 2, AR050: 1 H0422: 1		
HCFAZ12	970609	9348	3 - 188	19100	Asp-15 to Ser-22.				
HCFAZ07	849823	9349	222 - 1	19101	Ser-28 to Asn-40, Lys-68 to Lys-74.		L0588: 1 and H0422: 1.		
HCFAF08	959714	9350	117 - 275	19102	Leu-1 to Ala-7.		L0438: 2 and H0422: 1.		
HCFAF38	576723	9351	2 - 166	19103	Arg-1 to Lys-7, Arg-28 to Arg-34.		H0422: 1		
HBVAB02	971578	9352	324 - 139	19104			S3016: 1, L0598: 1, L0763: 1 and L0665: 1.		
HBVAG44	716685	9353	3 - 110	19105	His-1 to Ser-6, Ser-21 to Val-28.		S0182: 1 and L0766: 1.		
HBVAC23	847698	9354	3 - 194	19106			S0182: 1 and L0748: 1.		

HBTA84	781946	9355	2 - 295	19107	Thr-41 to Phe-51, Leu-58 to Asn-63.	AR089: 1, AR061: 0 S0180: 1		
HBMXU73	953898	9356	507 - 635	19108	Tyr-7 to Thr-21.	L0770: 2, S0116: 1, L0775: 1 and L0439: 1.		
HBMXS23	675254	9357	216 - 455	19109	Gln-1 to Pro-7, Gln-43 to Ser-53, Lys-67 to Lys-74.	L0748: 4, L0605: 3, S0116: 1 and L0747: 1.		
HBMXL78	738763	9358	312 - 452	19110		S0116: 1 and L0731: 1.		
HBMXL41	711608	9359	2 - 118	19111		S0116: 1 and L0748: 1.		
HBMXJ70	757328	9360	291 - 398	19112		S0116: 1 and L0748: 1.		
HBMXG10	968055	9361	16 - 198	19113	Glu-15 to Trp-22, Cys-24 to Tyr-31, Ser-52 to Arg-57.	S0116: 1 and L0439: 1.		
HBMXF73	764551	9362	134 - 295	19114	Ser-37 to Met-44.	S0116: 1 and L0748: 1.		
HBMWX13	955208	9363	153 - 317	19115	Pro-5 to Pro-11.	S0116: 1 and L0665: 1.		
HBMWS75	767440	9364	108 - 350	19116	Met-1 to Gly-6, Lys-19 to Val-26.	S0116: 1 and L0748: 1.		
HBMWR62	754059	9365	177 - 395	19117		S0116: 1, L0754: 1 and L0589: 1.		
HBMWK06	936088	9366	142 - 249	19118	Lys-8 to Cys-13.	S0116: 1 and L0608: 1.		
HBMWI28	685443	9367	3 - 134	19119	Gly-7 to Arg-13.	L0748: 2 and S0116: 1.		
HBMWE35	706034	9368	184 - 360	19120	Ser-1 to Ser-10, Pro-39 to His-45.	L0745: 2 and S0116: 1.	15q22	102578, 109700, 151670, 154550, 601780
HBMVQ26	546495	9369	175 - 303	19121	Ala-8 to Glu-20.	S0116: 1		
HBMVO41	712565	9370	225 - 359	19122		S0116: 1 and L0439: 1.		
HBMVI33	702683	9371	75 - 242	19123		S0116: 1 and L0439: 1.		
HBMVG85	575418	9372	54 - 221	19124		L0439: 2 and S0116: 1.		
HBMVG18	666855	9373	37 - 159	19125		L0748: 4 and S0116: 1.		
HBMVE59	933208	9374	50 - 178	19126	Asn-4 to Ser-10.	L0748: 3 and S0116: 1.		
HBMVD05	932441	9375	175 - 357	19127	Met-21 to Lys-27, Asp-35 to Thr-40, Gln-42 to Tyr-47.	S0116: 1 and L0581: 1.		
HBMUW96	574517	9376	28 - 210	19128		S0116: 1		
HBMUW85	783416	9377	257 - 625	19129	Pro-11 to Gly-24.	S0116: 1, L0439: 1 and L0731: 1.		

HBMUW58	574513	9378	86 - 214	19130			S0116: 1		
HBMUN03	847787	9379	244 - 408	19131			S0116: 1 and L0758: 1.		
HBMUL31	456760	9380	249 - 503	19132		Ser-22 to Glu-34.	S0116: 1		
HBMUG59	739509	9381	55 - 249	19133		Arg-10 to Thr-16.	S0116: 1 and L0758: 1.		
HBMUG23	425961	9382	464 - 619	19134			S0116: 1 and L0766: 1.		
	675305	9759	155 - 337	19511					
	675308	9760	287 - 189	19512		Gln-16 to Lys-33.			
HBMUD91	789320	9383	262 - 603	19135		Asp-43 to His-71.	S0116: 1 and L0748: 1.		
HBMUB13	950984	9384	177 - 416	19136			S0116: 1 and L0740: 1.		
HBMTX71	760605	9385	122 - 331	19137		Ile-1 to Leu-7, Lys-33 to Ser-38, Gln-52 to Gly-66.	S0116: 1 and L0748: 1.		
HBMTS23	676310	9386	44 - 298	19138		Thr-34 to Asp-39, Pro-75 to Ser-82.	S0116: 1, L0438: 1 and L0439: 1.		
HBMTR29	847785	9387	207 - 497	19139			L0599: 2, S0116: 1, L0763: 1 and L0748: 1.		
HBM TM67	751907	9388	162 - 308	19140			S0116: 1 and L0754: 1.		
HBM TD69	754179	9389	199 - 324	19141			S0116: 1 and L0754: 1.		
HBM TB85	923730	9390	192 - 446	19142			S0116: 1 and L0750: 1.		
HBM TB34	706024	9391	178 - 474	19143		Leu-11 to Asn-19, Arg-39 to Trp-44, Gly-49 to Ala-55.	L0749: 2 and S0116: 1.		
HBM SX83	863883	9392	1 - 162	19144		Arg-1 to Ser-8.	S0116: 1 and L0766: 1.		
HBM DS02	920096	9393	219 - 380	19145		Tyr-12 to Tyr-17.	H0421: 1 and L0777: 1.		
HBM DN16	661947	9394	265 - 495	19146			H0421: 1 and L0439: 1.		
HBM DM25	678127	9395	380 - 571	19147		Asn-14 to Ile-20, Cys-30 to Tyr-36.	H0421: 1, L0766: 1 and L0439: 1.		
	683427	9396	280 - 501	19148		Cys-6 to Arg-26, Ser-28 to Arg-38, Phe-63 to Tyr-74.	H0421: 1 and L0748: 1.		
HBM DL27									
HBM DF52	727169	9397	365 - 547	19149		Lys-18 to Gly-23.	H0421: 1 and L0599: 1.		
HBM DD72	879813	9398	67 - 387	19150		Pro-2 to Gln-10.	H0421: 1		
HBM CZ30	692733	9399	324 - 530	19151		Arg-1 to Gly-11, Ala-15 to Ser-22, Gln-40 to Gly-45.	H0421: 1 and L0602: 1.		

HBMCT24	677209	9400	133 - 285	19152			H0421: 1		
HBMCT09	625627	9401	456 - 626	19153	Phe-1 to Asn-11.		L0754: 2 and H0421: 1.		
HBMCS92	792736	9402	2 - 181	19154	Ala-1 to Lys-12.		H0421: 1 and L0748: 1.		
HBMCS55	731802	9403	76 - 219	19155			L0746: 2, H0421: 1 and L0777: 1.		
HBMCR25	678164	9404	275 - 613	19156			L0766: 3, H0421: 1 and L0741: 1.		
HBMQC95	888393	9405	181 - 372	19157			AR050: 133, AR054: 121, AR051: 115 H0421: 1		
HBMCG84	783043	9406	3 - 170	19158	Gln-21 to Val-26, Lys-42 to Ile-47.		H0421: 1 and L0748: 1.		
HBMCF20	646279	9407	106 - 495	19159			H0421: 1, L0384: 1 and L0592: 1.		
HBMCB55	731800	9408	1 - 228	19160	Pro-13 to Arg-21.		H0421: 1 and L0748: 1.		
HBMBX72	911168	9409	438 - 719	19161	Trp-10 to Ala-18, Arg-86 to Pro-93.		H0421: 1		
HBMBX64	746633	9410	91 - 249	19162			L0754: 2 and H0421: 1.		
HBMBX55	668981	9411	199 - 327	19163	Gln-19 to Ala-31.		H0421: 1, L0748: 1, L0439: 1 and L0596: 1.		
HBMBU52	973805	9412	97 - 282	19164			H0421: 1 and L0794: 1.		
HBMBN85	783520	9413	18 - 212	19165	Arg-25 to Cys-32.		H0421: 1		
HBMBI49	723094	9414	316 - 456	19166	Thr-1 to Ser-9.		L0748: 2 and H0421: 1.		
HBMBF89	912789	9415	73 - 579	19167			H0421: 1, L0749: 1 and L0755: 1.		
HBMBF78	623421	9416	590 - 892	19168			H0421: 1		
HBMBE68	879588	9417	2 - 400	19169			H0421: 1 and L0776: 1.		
HBMBC66	859500	9418	87 - 353	19170	His-12 to Cys-21.		H0421: 1 and L0747: 1.		
HBMBS57	734915	9419	1 - 147	19171			H0421: 1		
HBMBS45	578817	9420	12 - 293	19172	Val-6 to Lys-18, Arg-31 to Arg-42, Arg-48 to Asn-55.		H0421: 1		
HBMAC54	930481	9421	191 - 433	19173			T0071: 1 and L0051: 1.		
HBJNC01	915970	9422	120 - 299	19174			H0318: 1 and L0766: 1.		
HBJNB52	726475	9423	160 - 357	19175	Pro-15 to Cys-23.		AR061: 4, AR089: 4		

									H0318: 1, L0766: 1 and L0748: 1.		
HBJMW95	797604	9424	497 - 802	19176				Thr-7 to Asp-21, Thr-42 to Ser-54.	L0758: 2 and H0318: 1.		
HBJMW03	921996	9425	149 - 310	19177				Ser-16 to Glu-22.	L0745: 2, H0318: 1, L0439: 1, L0746: 1 and L0779: 1.		
HBJMU53	727987	9426	88 - 285	19178				Arg-1 to Lys-6, Pro-17 to Phe-27.	H0318: 1 and L0439: 1.		
HBJMS40	710880	9427	101 - 235	19179					H0318: 1 and L0748: 1.		
HBJMR59	738615	9428	1 - 204	19180					H0318: 1 and L0748: 1.		
HBJML90	787320	9429	328 - 164	19181					H0318: 1, L0598: 1 and L0754: 1.		
HBJML80	775435	9430	165 - 305	19182				Ala-14 to Thr-19, Cys-29 to Trp-36.	H0318: 1 and L0750: 1.		
HBJME11	972939	9431	31 - 234	19183					H0318: 1		
HBJMC69	754875	9432	62 - 262	19184					H0318: 1 and L0748: 1.		
HBJMA80	777456	9433	42 - 215	19185					H0318: 1 and L0748: 1.		
HBJLX09	625319	9434	290 - 442	19186				Gln-4 to Lys-14.	H0318: 1 and L0605: 1.		
HBJLW74	765352	9435	88 - 354	19187				Ser-21 to Gly-27.	H0318: 1 and L0748: 1.		
HBJLU36	847851	9436	68 - 439	19188				Glu-19 to Ser-30.	H0318: 1 and L0748: 1.		
HBJLR37	849633	9437	2 - 328	19189				Asn-1 to His-11.	AR089: 3, AR061: 1 L0593: 2, L0594: 2, H0318: 1 and L0592: 1.		
HBJLR31	900883	9438	3 - 956	19190				His-7 to Gly-17, Gly-28 to Gln-33, Asp-51 to Ala-59, Glu-94 to Glu-101, Pro-118 to Val-123, Pro-143 to Gly-152, Gln-203 to Glu-211, Ser-213 to Thr-226, Ser-233 to Gln-239, Arg-274 to Ser-279, His-288 to Pro-294.	AR061: 4, AR089: 3, AR051: 2, AR050: 1, AR054: 1 H0318: 1		
HBJLF04	614915	9439	40 - 282	19191					H0318: 1 and L0591: 1.		
HBJLE70	847853	9440	586 - 834	19192				Asn-25 to Ser-34,	H0318: 1 and L0777: 1.		

HBJKI77	772000	9441	98 - 337	19193	Gly-50 to Ser-57.	L0747: 2 and H0318: 1.		
HBJKG07	952843	9442	530 - 802	19194	Pro-12 to Met-21.	H0318: 1 and L0800: 1.		
HBJKF02	919446	9443	246 - 398	19195	Glu-1 to Gly-8, Asp-32 to Glu-40.	H0318: 1 and L0766: 1..		
HBJKD77	771975	9444	179 - 379	19196		H0318: 1		
HBJKD64	746398	9445	3 - 143	19197	Ser-40 to Glu-47.	H0318: 1		
HBJKD60	740171	9446	666 - 902	19198		H0318: 1 and L0754: 1.		
HBJKD50	724159	9447	1 - 204	19199	Arg-1 to Tyr-6.	H0318: 1		
HBJKD49	847857	9448	3 - 215	19200		H0318: 1		
HBJKD40	710931	9449	36 - 179	19201		H0318: 1		
HBJKA77	771982	9450	2 - 178	19202		H0318: 1 and L0777: 1.	18p11.31-p11.2	202200
HBJKA01	916077	9451	19 - 153	19203	Lys-37 to Lys-45.	H0318: 1 and L0646: 1.		
HBJJX53	835733	9452	79 - 393	19204		AR061: 6, AR089: 4 H0318: 1		
HBJJT12	894345	9453	3 - 596	19205	Phe-12 to Gln-21, Asp-27 to Thr-38, Pro-44 to Ser-52, Asn-54 to Ser-74, Ser-86 to Thr-92, Ala-117 to Phe-124, Gly-137 to Thr-142, Gly-182 to Ser-187.	AR061: 2, AR089: 1 L0749: 2 and H0318: 1.		
HBJJN02	919371	9454	306 - 548	19206	Thr-1 to Gly-9, Glu-29 to Ala-36, Pro-43 to Asn-50.	L0239: 1 and H0318: 1.		
HBJJL10	937583	9455	3 - 119	19207	Val-23 to Asn-30.	H0318: 1 and L0766: 1.		
HBJJE44	716409	9456	195 - 374	19208	Phe-5 to Trp-19, His-45 to Lys-53.	L0439: 2, L0780: 2 and H0318: 1.		
HBJJA32	699059	9457	381 - 683	19209	Asp-39 to Asn-46, Ser-61 to Gln-66.	L0744: 3, H0318: 1 and L0743: 1.		
HBJJA01	916078	9458	543 - 1055	19210	Asn-66 to Tyr-71, Gly-102 to Phe-109, Lys-120 to Asn-126.	L0766: 5, L0777: 3, L0779: 2, L0731: 2, H0318: 1 and L0803: 1.		
HBJIL42	597100	9459	280 - 411	19211		H0318: 1 and L0754: 1.		
HBJIL36	861363	9460	2 - 370	19212	Leu-62 to Ser-68,	H0318: 1, L0780: 1 and		

HBJH60	930448	9461	1 - 234	19213	Gly-117 to Gln-123. Pro-35 to Pro-42.	L0759: 1. AR089: 35, AR061: 8 H0318: 1, L0520: 1 and L0779: 1.		
HBJIF51	725081	9462	86 - 205	19214		H0318: 1 and L0748: 1.		
HBJIF31	697753	9463	482 - 255	19215	Leu-18 to Leu-28, Leu-32 to Ala-60, Arg-69 to Gln-76.	L0748: 4 and H0318: 1.		
HBJIB69	754891	9464	123 - 251	19216		L0748: 2 and H0318: 1.		
HBJIA80	784267	9465	198 - 428	19217		H0318: 1, L0759: 1 and L0596: 1.		
HBJHX73	971377	9466	241 - 1059	19218	His-8 to Gly-18, Thr-52 to Tyr-63, Tyr-93 to Gly-105, Arg-114 to Gln-130, Asn-139 to Cys-147, Cys-149 to Asp-159, Arg-196 to Trp-202.	AR050: 428, AR054: 421, AR051: 340 H0318: 1		
HBJHW74	765380	9467	112 - 444	19219	Pro-4 to Leu-11, Gly-39 to Arg-53.	L0748: 2 and H0318: 1.		
HBJHU20	907575	9468	125 - 298	19220		L0589: 2 and H0318: 1.		
HBJHO44	882040	9469	171 - 347	19221	Ser-10 to Arg-15.	H0318: 1 and L0748: 1.		
HBJHI96	828996	9470	237 - 437	19222	Arg-1 to Ser-6, Thr-28 to Trp-38.	H0318: 1 and L0759: 1.	9q34.2-q34.3	120215, 120215, 190198
HBJHG02	919450	9471	202 - 321	19223	Gly-17 to Lys-27, Gln-30 to Val-35.	H0318: 1, L0766: 1 and L0608: 1.		
HBJGT03	923800	9472	35 - 226	19224	Ala-16 to Ser-22, Pro-31 to Leu-38, Ser-41 to Gly-48.	AR061: 5, AR089: 3 L0769: 2, H0318: 1 and L0787: 1.		
HBJFR45	722105	9473	309 - 518	19225	Gln-20 to Ser-34, Cys-53 to Asp-58.	H0318: 1, L0789: 1 and L0748: 1.		
HBJFQ08	959190	9474	139 - 339	19226		H0318: 1		
HBJFP52	728580	9475	165 - 362	19227	Asp-1 to Gly-6, Thr-38 to Arg-46.	L0439: 2 and H0318: 1.		
HBJFP08	959868	9476	191 - 388	19228	Arg-46 to Lys-51.	H0318: 1 and L0777: 1.		
HBJFK85	783432	9477	1 - 111	19229	Pro-20 to Ile-25.	L0439: 2 and H0318: 1.		

HBJFI48	847899	9478	271 - 483	19230		AR051: 32, AR054: 28, AR050: 23 H0318: 1		
HBJFI30	691056	9479	33 - 452	19231	Pro-1 to Trp-6, Glu-55 to Glu-64.	L0748: 2, L0740: 2 and H0318: 1.		
HBJFH60	740543	9480	242 - 388	19232	Ala-5 to Arg-14, Tyr-22 to His-28.	L0756: 4, L0600: 2, H0318: 1 and L0754: 1.		
HBJFH06	935587	9481	333 - 689	19233	Pro-8 to Ser-14, Asn-32 to Gly-38, Arg-75 to Ser-82, Ser-91 to Gln-96.	H0318: 1 and L0592: 1.		
HBJFD41	711591	9482	3 - 377	19234		L0608: 2, H0318: 1 and L0748: 1.		
HBJFD21	671205	9483	211 - 399	19235	Leu-3 to Gly-16.	L0766: 3, L0748: 3, H0318: 1, L0789: 1 and L0749: 1.		
HBJFC23	423885	9484	3 - 458	19236		AR061: 8, AR089: 4 L0439: 3 and H0318: 1.		
HBJFB10	968162	9485	44 - 259	19237		L0748: 2, H0318: 1 and L0749: 1.		
HBJEY89	787044	9486	104 - 322	19238	Asp-9 to Gly-26.	H0318: 1 and L0747: 1.		
HBJES09	487020	9487	66 - 272	19239	Asn-18 to His-23, Glu-38 to Glu-45.	H0318: 1		
	490958	9761	284 - 141	19513				
HBJEP70	757374	9488	283 - 471	19240	Glu-1 to Arg-8.	L0754: 2 and H0318: 1.		
HBJEN68	752251	9489	307 - 465	19241		L0748: 2 and H0318: 1.		
HBJEM45	722107	9490	49 - 153	19242		H0318: 1 and L0740: 1.		
HBJEL04	615515	9491	329 - 493	19243		L0748: 2 and H0318: 1.		
HBJEJ06	935967	9492	99 - 200	19244		H0318: 1 and L0748: 1.		
HBJEE72	766187	9493	2 - 184	19245		L0439: 2 and H0318: 1.		
HBJED51	485130	9494	3 - 206	19246		H0318: 1		
HBJED05	935058	9495	273 - 473	19247	His-4 to Leu-15.	S0005: 1 and H0318: 1.		
HBJEC67	573809	9496	160 - 438	19248	Arg-2 to Leu-9, Arg-38 to Cys-54.	H0318: 1		
HBJEA73	573834	9497	1 - 81	19249	Gly-1 to His-18, Ala-22 to Trp-27.	H0318: 1		
HBJEA54	625943	9498	308 - 445	19250	Asn-35 to Arg-41.	H0318: 1		

HBJEA38	577103	9499	12 - 257	19251	Lys-1 to Glu-10.	L0749: 4 and H0318: 1.	
HBJEA37	839964	9500	1 - 108	19252	Lys-10 to Pro-20.	H0318: 1	
HBJEA13	419107	9501	56 - 268	19253		H0318: 1	
HBJDZ49	847928	9502	142 - 303	19254		L0758: 2, H0318: 1 and L0752: 1.	
HBJDR24	677407	9503	94 - 219	19255		H0318: 1 and L0748: 1.	
HBJDQ86	784654	9504	3 - 116	19256		H0318: 1 and L0756: 1.	
HBJDM70	757435	9505	313 - 399	19257	Leu-1 to Tyr-6.	H0318: 1 and L0754: 1.	
HBJDL24	678272	9506	180 - 440	19258	Glu-48 to Gly-53.	L0748: 3 and H0318: 1.	
HBJCV85	900955	9507	538 - 735	19259		AR054: 10, AR050: 8, AR051: 2	
						H0318: 1	
HBJCQ65	876430	9508	68 - 286	19260	Gly-35 to Ser-48.	H0318: 1, L0748: 1 and L0754: 1.	
HBJCJ82	779645	9509	315 - 479	19261		H0318: 1	
HBJCE07	954090	9510	1 - 132	19262	Glu-11 to Arg-19.	H0318: 1 and L0748: 1.	
HBJCB83	781411	9511	2 - 370	19263		H0318: 1 and L0748: 1.	
HBJBR04	847952	9512	115 - 309	19264		H0318: 1 and L0748: 1.	
HBJAP95	796659	9513	175 - 276	19265		H0318: 1 and L0752: 1.	
HBJAO55	732436	9514	40 - 171	19266	Thr-24 to Gly-37.	H0318: 1 and L0748: 1.	
HBJAJ49	723164	9515	320 - 439	19267		H0318: 1 and L0748: 1.	
HBJAI50	724619	9516	1 - 345	19268	Gly-32 to Tyr-41, Leu-64 to Asp-71.	L0731: 4, H0318: 1, L0783: 1, L0809: 1 and L0757: 1.	
HBJAH27	682941	9517	104 - 235	19269	Pro-29 to Pro-35.	H0318: 1	
HBJAE32	699695	9518	214 - 408	19270	Ile-3 to Leu-11, Lys-45 to Asp-50, Val-60 to Cys-65.	H0318: 1, L0664: 1, L0438: 1 and L0749: 1.	
HBJAB77	772422	9519	80 - 325	19271	Asn-17 to Trp-23, Ala-33 to Ile-47.	H0318: 1 and L0748: 1.	
HBJAB49	722195	9520	175 - 471	19272	Tyr-39 to Val-44.	L0766: 2, L0803: 2 and H0318: 1.	
HBJAB28	847966	9521	96 - 272	19273	Gly-38 to Lys-45.	H0318: 1 and L0485: 1.	
HBJAB15	660552	9522	31 - 390	19274	Glu-71 to Phe-79, Glu-98 to Ala-103, Ala-111 to Met-117.	H0318: 1 and L0759: 1.	

HBDAE47	720008	9523	364 - 486	19275	Phe-25 to Pro-34.	L0363: 1, L0766: 1, L0804: 1 and S0308: 1.		
HBDAD64	864344	9524	240 - 548	19276	Gln-8 to Trp-30, Arg-77 to Val-95.	L0754: 2 and S0308: 1.		
HBDAD16	661560	9525	260 - 388	19277	Tyr-2 to His-10.	L0809: 1, L0748: 1 and S0308: 1.		
HBCCO10	963157	9526	184 - 372	19278	Thr-30 to Glu-37, Gln-42 to Arg-49.	L0749: 2 and H0370: 1.		
HBCCJ05	930956	9527	72 - 365	19279	Pro-5 to His-14, Ser-58 to Ala-66.	H0370: 1 and L0748: 1.		
HBCCE11	965869	9528	336 - 527	19280	Arg-9 to Cys-21, Pro-35 to Trp-41.	H0370: 1, L0766: 1 and L0803: 1.		
HBCCD06	938319	9529	1 - 408	19281	Arg-1 to Glu-6, Ala-10 to Ala-15, Ala-35 to Ser-43.	H0370: 1 and L0759: 1.		
HBCCB51	975256	9530	48 - 227	19282	Lys-46 to Gly-60.	H0370: 1		
HBCBR08	958151	9531	3 - 428	19283	Pro-18 to Gln-23, Pro-72 to Gln-81, Pro-87 to Ser-93, Asp-112 to Leu-119, Pro-121 to Ala-135.	H0370: 1 and L0766: 1.	16q22.1	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 245900, 276600, 600223
HBCBN51	952057	9532	358 - 738	19284	Arg-7 to Ser-19, Leu-97 to Ala-106.	AR089: 28, AR061: 8 L0143: 2, H0370: 1 and L0595: 1.		
HBCBN06	934110	9533	25 - 231	19285		H0370: 1 and L0748: 1.		
HBCBG04	926761	9534	213 - 596	19286	Lys-13 to Leu-18.	L0749: 2 and H0370: 1.		
HBCBF12	969578	9535	1 - 225	19287		H0370: 1, L0659: 1 and L0758: 1.		
HBCBE57	848322	9536	426 - 677	19288	Gly-51 to Gly-56, Pro-62 to Gly-74.	H0370: 1, L0748: 1, L0749: 1 and L0591: 1.		
HBCBB22	848325	9537	566 - 868	19289		H0370: 1, L0744: 1, L0779: 1, L0777: 1 and L0601: 1.		
HBCAW52	573919	9538	65 - 247	19290	Pro-7 to Pro-19, Ser-26 to Gly-34.	H0370: 1		

HBCAT10	968195	9539	84 - 218	19291	Tyr-9 to Gly-15, Lys-34 to Gln-41.	H0370: 1 and L0759: 1.		
HBCAS32	699489	9540	106 - 264	19292	Leu-1 to Gln-6, Pro-13 to His-18, Arg-35 to Val-43.	H0370: 1 and L0744: 1.		
HBCAQ85	783431	9541	2 - 307	19293	Gly-18 to Pro-24, Pro-26 to Gln-41.	L0439: 2 and H0370: 1.		
HBCAQ42	864356	9542	182 - 430	19294	Arg-8 to Asp-17.	H0370: 1 and L0365: 1.		
HASCG58	738423	9543	21 - 236	19295		L0748: 3, L0731: 2, H0274: 1 and L0754: 1.		
HASAW90	789112	9544	494 - 655	19296	Asn-27 to Ser-38.	L0740: 2, L0758: 2, H0004: 1 and L0439: 1.		
HASAR74	879377	9545	745 - 1068	19297		H0004: 1		
	883501	9762	251 - 643	19514				
HASAC10	968746	9546	3 - 287	19298	Arg-30 to Tyr-38, Met-71 to Arg-76, His-78 to Val-86, Glu-89 to Gly-95.	H0004: 1, L0639: 1, L0748: 1 and L0779: 1.		

[044] The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

[045] The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the immune/hematopoietic associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[046] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[047] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on the

analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[048] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly

expressed in immune/hematopoietic tissues, including normal and diseased immune/hematopoietic tissues (See Table 1A, column 7 and Table 4).

[049] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[050] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[051] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID NO:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAMHB21	11	961376	AL035530	19515	1-137 465-2035 2761-2939 3499-3663 3841-4296 5031-5501 5707-5905 5946-6330 6790-6899 6957-7401 7628-7818 7889-10548
HAMHB21	11	961376	AL035530	19516	1-577
HASAX16	12	573692	AL358796	19517	1-1065
HASAX16	12	573692	AL356513	19518	1-1281
HASAX16	12	573692	AL358796	19519	1-964
HASAX16	12	573692	AL356513	19520	1-540
HASAX16	12	573692	AL356513	19521	1-967
HASAY74	13	526312	AC006479	19522	1-1081
HASAY74	13	526312	AC006479	19523	1-1052
HASAY74	13	526312	AC006479	19524	1-117
HASAY89	14	958768	AC012580	19525	1-874
HASAY89	14	958768	AL133502	19526	1-874
HASAY89	14	958768	AC012580	19527	1-87
HASAY89	14	958768	AC012580	19528	1-1034 1426-2177
HASAY89	14	958768	AL133502	19529	1-1034 1426-2177
HASAY94	15	521835	AC022702	19530	1-220 2365-2620 2992-3310 3432-3987 4545-5235 5266-5325 5814-6468 6801-6965 7327-7763 7979-8172
HASAY94	15	521835	AC025796	19531	1-272
HASAY94	15	521835	AC024998	19532	1-272
HASAY94	15	521835	AL365438	19533	1-272
HASAY94	15	521835	AL390122	19534	1-272
HASAY94	15	521835	AL133216	19535	1-306 1488-1890 2450-2722 3082-3400 3526-4081 4304-5314
HASAY94	15	521835	AF198096	19536	1-308 1490-1896 2457-2728 2816-3407 3532-4087

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HASAY94	15	521835	AC024998	19537	1-592
HASAY94	15	521835	AC022702	19538	1-316
HASAY94	15	521835	AC025796	19539	1-592
HASAY94	15	521835	AL365438	19540	1-591
HASAY94	15	521835	AL390122	19541	1-592
HASAY94	15	521835	AL133216	19542	1-750
HASAY94	15	521835	AL133216	19543	1-138 734-1117 1716-2301 2496-3003 3142-3588 5476-6185 6679-7322 7428-7952 8163-8628 9071-9154 9380-9538 10422-10640 10673-10765 10780-10828 11018-11735 12735-13548 13651-14193 14663-14949 15056-15454 17688-18060 19315-19659
HASAY94	15	521835	AF198096	19544	1-2408
HASAY94	15	521835	AF198096	19545	1-373
HBCAL39	17	964871	AL023808	19546	1-606
HBCAL39	17	964871	AL354975	19547	1-609
HBCAL39	17	964871	AL355583	19548	1-609
HBCAL39	17	964871	AL117337	19549	1-607
HBCAL39	17	964871	AL161931	19550	1-607
HBCAL39	17	964871	AL022345	19551	1-83 1585-1635 1808-2378 5485-5902 6116-6277 8376-8779 8822-8972 9168-9821 11260-11538 13579-13698 17448-17520 17571-17848 18839-19282 19624-20151 20479-21084 21175-21448 32819-33061 34887-35180 35454-36250 37565-38021 38576-38855

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HBCAL39	17	964871	AF205588	19552	1-607
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HBCAL39	17	964871	AL023808	19554	1-528
HBCAL39	17	964871	AL354975	19555	1-528
HBCAL39	17	964871	AL355583	19556	1-274
HBCAL39	17	964871	AL355583	19557	1-528
HBCAL39	17	964871	AL117337	19558	1-273
HBCAL39	17	964871	AL117337	19559	1-526
HBCAL39	17	964871	AL161931	19560	1-273
HBCAL39	17	964871	AL161931	19561	1-526
HBCAL39	17	964871	AL022345	19562	1-465
HBCAL39	17	964871	AF205588	19563	1-526
HBCAL39	17	964871	AF205588	19564	1-273
HBCAR79	19	573989	AC021215	19565	1-432
HBCAT17	21	503573	AC011448	19566	1-874
HBCAT17	21	503573	AC011448	19567	1-749
HBCAT63	22	573993	AL133243	19568	1-236
HBCAT63	22	573993	AL133243	19569	1-364
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HBCBX12	24	861018	AC068475	19571	1-70 163-330 651-994 1105-1272 1372-1586 2253-2908 2995-3524 3711-4406 4418-4480 4581-5218 5621-5829 6007-6286
HBCBX12	24	861018	AC005954	19572	1-91 893-1009 1323-1695 1856-2422 3548-3650 3665-4010 4965-5170 5288-5397 6874-7000 7283-7430 7520-7600 7693-7860 8181-8524 8634-8807 8902-9116

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HBCBX12	24	861018	AC005954	19573	1-131
HBDAC79	26	935414	AP001785	19574	1-99 368-765 963-1141 1966-2078 2175-2597 3058-3200 3479-3686 4113-4631 4727-5095 5187-5344 5973-6073 6176-7972 8126-9308
HBDAC79	26	935414	AP001785	19575	1-224
HBDAC79	26	935414	AP001785	19576	1-428
HBDAD04	27	614849	AC055822	19577	1-970
HBDAD04	27	614849	AC055822	19578	1-424
HBDAD04	27	614849	AC055822	19579	1-281
HBDADF51	28	725481	AC041031	19580	1-709
HBDADF51	28	725481	AC012314	19581	1-859 928-1588 2180-2459 2554-2831 2984-3375 3783-4571 4867-5280 5713-7103
HBDADF51	28	725481	AC010492	19582	1-859 928-1588 2180-2459 2553-2830 2983-3374 3782-4570 4866-5279

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HBD AF51	28	725481	AC012314	19583	1-428
HBD AF51	28	725481	AC010492	19584	1-428
HBD AF61	29	864338	AC003963	19585	1-1249
HBD AF61	29	864338	AC003963	19586	1-582
HBD AF61	29	864338	AC003963	19587	1-106
HBJAB59	30	557972	AC073349	19588	1-596
HBJAB59	30	557972	AC073349	19589	1-107
HBJAB59	30	557972	AC073349	19590	1-608
HBJAC23	31	529753	AC008013	19591	1-37 103-661 1556-1903 1956-2579 2645-3136 3489-3537 4511-4666 5208-5598 5932-6495 6523-7338 8399-8495 9972-10388 10578-11240 11254-11411 11711-11799 12318-12567 13065-13804 13950-14573 15144-15404 16572-16810 17843-17999 18506-18812 18839-19318 20897-21290 21743-22162 22280-23030
HBJAC23	31	529753	AC006432	19592	1-151 694-1084 1418-1981 2009-2823 3503-3599 5071-5487 5677-6339 6355-6510 6809-6897 7416-7665 8157-8919 9065-9688 10259-10519 11692-11930 12638-12770 12941-13097 13610-13902 13943-14422 15994-16388 16841-17233 17379-18129
HBJAC23	31	529753	AC008013	19593	1-294

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HBJAC23	31	529753	AC006432	19595	1-290
HBJAG72	32	722723	AC022533	19596	1-479
HBJAG72	32	722723	AC068898	19597	1-479
HBJAG72	32	722723	AC022533	19598	1-140
HBJAG72	32	722723	AC068898	19599	1-140
HBJAJ75	34	953840	AL133163	19600	1-98 211-417 784-1004 1875-2071 2745-2913 3205-4214 4242-4552 4695-5574 6331-6850 7048-7631 7696-8408 8763-8873 8944-10131 10166-10740
HBJAJ75	34	953840	AL133163	19601	1-535
HBJAJ85	35	675904	AC002450	19602	1-117
HBJAJ85	35	675904	AC002450	19603	1-894
HBJAJ85	35	675904	AC002450	19604	1-501
HBJAV57	36	527998	AC004976	19605	1-140 348-434 2467-2856 3263-3461 4014-4463 4995-5067 6578-6638 7115-7236
HBJAV57	36	527998	AC004976	19606	1-273
HBJAY91	38	828026	AC067953	19607	1-341
HBJAY91	38	828026	AC067953	19608	1-180
HBJAY91	38	828026	AC067953	19609	1-364
HBJBM14	39	781398	AC022239	19610	1-407
HBJBM14	39	781398	AC022239	19611	1-463
HBJBM14	39	781398	AC022239	19612	1-663
HBJBU55	41	527112	AC024631	19613	1-580
HBJBU55	41	527112	AC024631	19614	1-103

HBJCD43	42	714390	AC013726	19615	1-76 903-1151 6010-6078 6161-6277 8977-9064 9732-9789 10007-10050 10340-10668 10685-10790 11749-11985 13579-13684 14185-14277 16029-16442 17116-17154
HBJCD43	42	714390	AC013726	19616	1-181 186-409
HBJCD43	42	714390	AC013726	19617	1-315
HBJCJ68	44	823468	AC022827	19618	1-223
HBJCJ68	44	823468	AC025429	19619	1-223
HBJCJ68	44	823468	AC022827	19620	1-255
HBJCJ68	44	823468	AC022827	19621	1-331
HBJCJ68	44	823468	AC025429	19622	1-331
HBJCJ68	44	823468	AC025429	19623	1-254
HBJDL73	48	531104	AC073041	19624	1-80 1609-2611 2813-3040 3929-4450 5011-5181 6243-6662 7347-7904
HBJDL73	48	531104	AC007401	19625	1-115 615-834 2847-2983 6954-6980 7541-7661 9579-9723 12147-12951 13592-13749 17487-18023 23251-23354 24659-24888 25992-26409 30147-30227 31757-32759 32961-33188 34077-34598 35159-35329 36391-36810 37495-39032 39741-42310 42460-42939 43671-44248 44277-44792 46043-46323 46392-47319
HBJDO70	50	752830	AC026134	19626	1-539
HBJDO70	50	752830	AC026134	19627	1-169

HBJDO70	50	752830	AC026134	19628	1-421
HBJDP32	51	573846	AC046176	19629	1-2934
HBJDP32	51	573846	AC046176	19630	1-357
HBJDP41	52	494836	AC015764	19631	1-90 1233-1633 2222-2584 3024-3326 3819-3944 4361-4505
HBJDP41	52	494836	AC011667	19632	1-138 1281-1681 2270-2632 3070-3372 3865-3990 4407-4644 8378-8745 8970-10143 10599-10746 11435-11585 11809-12440 12785-14150
HBJDP41	52	494836	AC012052	19633	1-401
HBJDP41	52	494836	AC012052	19634	1-363
HBJDT47	55	573728	AC016555	19635	1-330
HBJDT47	55	573728	AC010243	19636	1-330
HBJDT47	55	573728	AC010897	19637	1-330
HBJDW36	57	573847	AC023933	19638	1-460
HBJDW36	57	573847	AC023933	19639	1-231
HBJDW36	57	573847	AC023933	19640	1-311
HBJDX18	58	795732	AC007546	19641	1-103 1091-1218 1856-2074 2112-2398 2749-2937 4357-4400 5823-5913 6287-6977 7105-7443 8618-8818 9074-9299 10264-12381 12541-13026 13249-13333 13355-14023 14447-14788 14908-15500 15562-16612 17335-17834 18610-18726 21062-21312 21764-21927 24230-24297 25325-27507 27761-28166 28198-28323 29007-30428 31322-31453

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HBJDX18	58	795732	AC040979	19642	1-691 819-1158 2333-2533 2789-3014 3110-3211 3641-6097 6257-7059 7071-7662
HBJDX18	58	795732	AC007546	19643	1-258
HBJDX18	58	795732	AC040979	19644	1-284
HBJDX18	58	795732	AC007546	19645	1-143 204-922
HBJEA22	60	674872	AC018393	19646	1-382
HBJEA22	60	674872	AC023051	19647	1-382
HBJEA22	60	674872	AC018393	19648	1-333
HBJEA22	60	674872	AC023051	19649	1-333
HBJEA25	61	589249	AC016153	19650	1-76 255-413 485-549 1027-1356 1650-1744 1873-1996 2718-2802 2850-3420 3710-4290 4976-5599 5718-6368 6700-6837 7237-7349
HBJEA44	62	973376	AC069385	19651	1-515
HBJEA65	63	934994	AL031589	19652	1-1069
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HBJED66	65	787251	AC023043	19654	1-400
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HBJEE29	66	888625	AL035652	19664	1-1667

HBJEE29	66	888625	AL035652	19665	1-530
HBJEE29	66	888625	AL035652	19666	1-242
HBJEI42	69	669495	AC073917	19667	1-645
HBJEI42	69	669495	AC010191	19668	1-645
HBJEI42	69	669495	AC073532	19669	1-645
HBJEI42	69	669495	AC073917	19670	1-167
HBJEI42	69	669495	AC073917	19671	1-383
HBJEI42	69	669495	AC010191	19672	1-167
HBJEI42	69	669495	AC073532	19673	1-383
HBJEI42	69	669495	AC010191	19674	1-382
HBJEI42	69	669495	AC073532	19675	1-111
HBJEJ21	70	671201	AC008449	19676	1-302
HBJEJ21	70	671201	AC008648	19677	1-302
HBJEJ21	70	671201	AC008449	19678	1-293
HBJEJ21	70	671201	AC008449	19679	1-331
HBJEJ21	70	671201	AC008648	19680	1-327
HBJEJ21	70	671201	AC008648	19681	1-291
HBJEJ29	71	693490	AC002126	19682	1-432
HBJEJ29	71	693490	AC002126	19683	1-415
HBJEJ83	72	847920	AC009970	19684	1-687
HBJEJ83	72	847920	AC040935	19685	1-687
HBJEJ83	72	847920	AC009970	19686	1-377
HBJEJ83	72	847920	AC009970	19687	1-380
HBJEJ83	72	847920	AC040935	19688	1-377
HBJEJ83	72	847920	AC040935	19689	1-380
HBJEO29	73	693491	AC011276	19690	1-646
HBJEO29	73	693491	AC009557	19691	1-644
HBJEO29	73	693491	AC011276	19692	1-578
HBJEO29	73	693491	AC009557	19693	1-324
HBJEO29	73	693491	AC009557	19694	1-441
HBJEP15	74	847843	AC005580	19695	1-394
HBJEP73	75	764573	AC073066	19696	1-314
HBJER19	76	953804	AC009118	19697	1-374
HBJES44	77	715846	AC034199	19698	1-723
HBJES44	77	715846	AC034199	19699	1-540
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					7379-7476
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					20883-21548
					22494-22739

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HBJES44	77	715846	AC034199	19700	1-3850
HBJET94	79	794343	AL133485	19701	1-272
HBJET94	79	794343	AL133485	19702	1-174
HBJET94	79	794343	AL133485	19703	1-422
HBJEW15	80	507534	AC010618	19704	1-416 2674-2762
HBJEW15	80	507534	AC010618	19705	1-134
HBJEW15	80	507534	AC010618	19706	1-1447
HBJEZ09	81	573781	AC026110	19707	1-304
HBJEZ09	81	573781	AC010204	19708	1-304
HBJEZ09	81	573781	AC026110	19709	1-309
HBJEZ09	81	573781	AC026110	19710	1-291
HBJEZ09	81	573781	AC010204	19711	1-291
HBJEZ09	81	573781	AC010204	19712	1-311
HBJEZ16	82	421567	AL158163	19713	1-145 1576-1931 2612-2916 4117-4471 5006-5270
HBJEZ16	82	421567	AL158163	19714	1-892
HBJEZ39	83	690479	AC068085	19715	1-438
HBJEZ39	83	690479	AC068085	19716	1-634 690-747
HBJFJ53	85	573806	AC010736	19717	1-423 433-814
HBJFJ53	85	573806	AC010736	19718	1-169
HBJFK55	86	625315	AC009116	19719	1-374
HBJFK55	86	625315	AC009116	19720	1-401
HBJFK55	86	625315	AC009116	19721	1-258
HBJFL49	87	573970	AC063939	19722	1-428
HBJFP58	88	738298	AC069475	19723	1-122 261-484
HBJFV59	90	573747	AL121585	19724	1-1187
HBJFV59	90	573747	AL121585	19725	1-373
HBJFV59	90	573747	AL121585	19726	1-618
HBJFW10	91	878778	AC027538	19727	1-466
HBJFW10	91	878778	AC010770	19728	1-466
HBJFW10	91	878778	AC012100	19729	1-466
HBJFW20	93	573755	AC024673	19730	1-323
HBJFW20	93	573755	AC024673	19731	1-723
HBJFW50	94	571351	AL159977	19732	1-493
HBJFW50	94	571351	AL354879	19733	1-493
HBJFW50	94	571351	AL159977	19734	1-1712
HBJFW55	95	526682	AC007068	19735	1-878
HBJFW55	95	526682	AC007068	19736	1-367
HBJFW68	96	573766	AC024283	19737	1-309
HBJFW68	96	573766	AL358118	19738	1-309
HBJFW68	96	573766	AC024283	19739	1-291
HBJFW68	96	573766	AL358118	19740	1-84
HBJFW68	96	573766	AC024283	19741	1-84
HBJFW68	96	573766	AL358118	19742	1-301
HBJFY40	100	574095	AL157786	19743	1-466

HBJFZ21	101	671191	AC025698	19744	1-238
HBJFZ21	101	671191	AC025698	19745	1-299
HBJFZ82	104	799685	AC010645	19746	1-1412
HBJFZ82	104	799685	AC010645	19747	1-1261
HBJGU70	108	864063	AC007897	19748	1-844
HBJGU70	108	864063	AC022221	19749	1-852
HBJGU78	109	920821	AC004031	19750	1-93 2963-3611 4073-4400 5450-5677 6354-6505 7666-7726 8063-8297 8342-9068 10411-10884 11187-11272 11986-12402 13606-13851 15238-15358 16262-16453 16496-16995 17115-18395 18440-19183
HBJGU78	109	920821	AC004031	19751	1-1144
HBJGV17	110	662725	AL353762	19752	1-498
HBJGV17	110	662725	AC016875	19753	1-498
HBJGV17	110	662725	AL160400	19754	1-498
HBJGV17	110	662725	AL353762	19755	1-233
HBJGV17	110	662725	AC016875	19756	1-233
HBJGV17	110	662725	AL160400	19757	1-233
HBJGV17	110	662725	AL353762	19758	1-609
HBJGV17	110	662725	AC016875	19759	1-609
HBJGV17	110	662725	AL160400	19760	1-609
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HCWFFV32	1202	960099	AF001550	22248	1-404
HCWFFV34	1203	577896	AC021494	22249	1-468
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HCWFFV69	1206	527087	AC004007	22253	1-619
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HCWFX23	1208	675902	AC025321	22256	1-307
HCWFZ56	1212	733414	AL160291	22257	1-221
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HCWGA27	1213	861968	AL354795	22259	1-748
HCWGC02	1218	917348	AC021291	22260	1-520
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HCWGD33	1221	849909	AP000759	22264	1-314
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HCWGD33	1221	849909	AC069080	22271	1-442
HCWGD33	1221	849909	AC069080	22272	1-302
HCWGD66	1222	496411	AC008803	22273	1-361
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HCWGF76	1238	752789	AC011130	22308	1-334
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